

**“U OF T’S ACADEMIC STRENGTH,
LOCATION, AND THE CHANCE
TO EXPERIENCE
LIFE IN TORONTO ARE VERY
APPEALING.”**

NORA TATARYAN, PhD STUDENT
WOMEN & GENDER STUDIES
CONNAUGHT SCHOLAR 2014-2015

**THINKING
FORWARD**

CALENDAR
2015-2016



UNIVERSITY OF TORONTO
SCHOOL OF GRADUATE STUDIES

The School of Graduate Studies Calendar is available online in HTML and PDF formats.

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

Any corrections and/or updates will be posted at www.sgs.utoronto.ca/calendar.

Students are strongly advised to consult the web page regularly to keep informed of changes.

Composition by
School of Graduate Studies
University of Toronto

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University of Toronto

**School of
Graduate
Studies
2015-2016
Calendar**

Graduate Programs

For admission and application information, contact the graduate unit directly. Contact information and website addresses are listed in each unit's entry.

Website

www.sgs.utoronto.ca

Student Services at SGS

Telephone: (416) 978-6614

Fax: (416) 978-4367

Email:

graduate.information@utoronto.ca

graduate.awards@utoronto.ca

63/65 St. George Street, Toronto, Ontario, Canada M5S 2Z9

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Graduate Studies at the University of Toronto

Established in 1827 by royal charter, the University of Toronto is the largest research-intensive university in Canada, located in one of the world's great urban regions.

Operating on three campuses with more than 84,000 students, including over 16,000 graduate students, the University is globally renowned for its teaching and research, and ranks third among universities worldwide in total output of academic publications.

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 (SGS) did not become a distinct academic division within the University of Toronto until 1922.

In 1965, SGS was reorganized and expanded. Today it comprises more than 80 graduate units (departments, centres, and institutes), offering approximately 280 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.

Deans and Directors of the School of Graduate Studies

Dean, School of Graduate Studies and Vice-Provost, Graduate Research and Education

L. Rowe, BSc, MSc, PhD

Vice-Dean, Programs

E. M. Smyth, BA, BEd, MA, EdD

Vice-Dean, Students

L. F. De Nil, MSc, PhD

Director of Student Services

D. MacMillan, BA, MDE

Director of Information Systems

C. Dales, BSc

Director of Business and Operations

C. H. Kim, BComm

Dean's Welcome

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. We invite you to learn more about the excellent programs we offer.

Here at the largest graduate school in Canada, over 16,000 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 fulfil 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.

With my best wishes,

Locke Rowe

Dean, School of Graduate Studies and Vice-Provost,
Graduate Research and Education

About This Calendar

Effective Academic Period

The *2015-2016 School of Graduate Studies Calendar* is effective for the academic period September 1, 2015 to August 31, 2016. References in the calendar to "current academic year" refer to this period.

Available Calendar Formats

The *SGS Calendar* is edited annually; it is available online in PDF and HTML versions on the SGS web-site in August. The last print edition was published in September 2014.

In the case of any discrepancy, the HTML version shall apply. Any post-publication corrections and/or updates to this calendar will be posted as amendments on www.sgs.utoronto.ca/calendar. 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* 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 four major sections.

Sections

General Regulations outlines admission, registration, enrolment, grading, and graduation policies and procedures. Selected policies, codes, and guidelines 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.

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. combined degree programs
3. collaborative 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 and hold a graduate faculty membership are listed by appointment category: full member, member emeritus, and associate member.

For additional details about a graduate program, visit the unit's website.

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, 2015, to August 31, 2016. 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 SGS 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 Programs by Graduate Unit) of the academic year in which the student first registered in the graduate program.

All University policies can be found at www.governingcouncil.utoronto.ca/Governing_Council/Policies.htm. Those of particular importance to students are:

- Code of Behaviour on Academic Matters
- Code of Student Conduct
- University Assessment and 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/>.

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 voice-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 admissions, registration, academic programs, University-related student activities, activities of student societies, safety, financial assistance and awards, graduation and University advancement, and reporting to government.

The University is also required to report student-level enrolment-related data to the Ministry of Training, Colleges and Universities as a condition of its receipt

of operating grant funding. The Ministry collects this enrolment data, which includes limited personal information such as Ontario Education Numbers, student characteristics, and educational outcomes, in order to administer government postsecondary funding, policies and programs, including planning, evaluation and monitoring activities.

At all times it will be protected in accordance with the Freedom of Information and Protection of Privacy Act.

If you have questions, please refer to
www.fippa.utoronto.ca

or contact:

Coordinator
Freedom of Information and Protection of Privacy
University of Toronto
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.

Sessional Dates

Fall Session 2015

M July 13	Registration for Fall session begins
M August 3	Civic Holiday (University closed)
F August 28	Last date for payment of tuition fees to meet registration deadline. Minimum required payment due (arrears + 100% of current fall tuition fee charges)
M September 7	Labour Day (University closed)
F September 11	Coursework must be completed and grades submitted for Summer session courses and extended courses ⁽³⁾
M September 14	Most formal graduate courses and seminars begin in the week of September 14 ⁽¹⁾
T September 15	Final date to submit final doctoral theses to SGS to avoid fee charges for 2015-16 ⁽²⁾
W September 16	Summer session grades released for viewing by students on Student Web Services (ROSI/ACORN)
F September 18	Registration deadline for students beginning program in Fall session; after this date, a late registration fee will be assessed
M September 28	Final date to add full-year and Fall session courses
F October 2	Final date to submit final doctoral thesis for Fall Convocation
F October 2	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 ⁽⁴⁾
M October 12	Thanksgiving Day (University closed)
M November 2	Final date to drop Fall session full or half courses without academic penalty ⁽⁶⁾
M November 2	Students registered in Fall-Winter: Last date for payment of Winter session minimum required payment (unpaid fees from previous session[s] + 100% of current Winter session tuition charges)
November	Fall Convocation information and dates are posted at www.convocation.utoronto.ca
November	November pause for Faculty of Arts and Science undergraduate students takes place from November 9 to 10 ⁽⁵⁾
M November 30	Students registered in Fall-Winter: Remaining Winter session (January to April) fees due by this date to avoid incurring service charges
F December 18	Students registered in Winter session only: Last date for payment of Winter session minimum required payment (unpaid fees from previous session(s) + 100% of current Winter session tuition charges) to meet registration deadline
W December 23	University closed for winter break from Wednesday, December 23 to Friday, January 1 inclusive (for last day of classes before winter break, consult graduate units concerned)

Winter Session 2016

M January 4	University re-opens
M January 11	Most formal graduate courses and seminars begin in the week of January 11 ⁽¹⁾
F January 15	Registration deadline for students beginning program in Winter session; after this date, a late registration fee will be assessed. Minimum required payment (arrears + 100% of current Winter session [January to April] tuition fees) due
F January 15	Coursework must be completed and grades submitted for Fall session courses ⁽³⁾
F January 15	Final date to submit doctoral theses without fee payment for Winter session
W January 20	Fall session grades available for viewing by students on Student Web Services (ROSI/ACORN)
F January 22	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 ⁽⁴⁾

Sessional Dates 2015-2016

F January 22	Final date for all students to request that their degrees be conferred <i>in absentia</i> in March
F January 22	Final date to submit final doctoral thesis for March Convocation <i>in absentia</i>
F January 22	Fall dual registrants must be recommended for the master's degree by this date to maintain their PhD registration ⁽⁴⁾
M January 25	Final date to add Winter session courses ⁽³⁾
M February 1	Students registered for Winter session only—pay any remaining Winter session (January to April) fees to avoid incurring service charges
M February 15	Family Day (University closed)
February	Reading Week for Faculty of Arts and Science undergraduate students takes place from February 15 to 19 ⁽⁵⁾
March	March Graduation <i>in absentia</i> information is posted at www.convocation.utoronto.ca
T March 1	Final date to drop full-year and Winter session courses without academic penalty ⁽⁶⁾
F March 25	Good Friday (University closed)
April	For last day of Winter classes, consult the unit concerned
F April 22	For students obtaining degrees at June Convocation, coursework must be completed and grades submitted for full-year and Winter session courses
F April 22	Final date for receipt of degree recommendations and submission of any required theses for master's degrees for June Convocation ⁽⁴⁾
F April 22	Final date for submission of final doctoral thesis for students whose degrees are to be conferred at the June Convocation ⁽²⁾
F April 22	Final date for degree recommendations of Winter dual registrants for the master's degree to maintain their PhD registration ⁽⁴⁾

Summer Session 2016

May	For first day of Summer classes, consult graduate unit concerned.
F May 6	Final date for registration of students beginning program in Summer (May to August) session; after this date, a late registration fee will be assessed. Minimum required payment (arrear + 50% of Summer session [May to August] tuition fees) due
M May 9	Final date to enrol in May-to-June or May-to-August session courses
F May 13	Coursework must be completed and grades submitted for full-year and Winter session courses (except for extended courses) ⁽³⁾
W May 18	Winter session grades available for viewing by students on Student Web Services (ROSI/ACORN)
M May 23	Victoria Day (University closed)
F May 27	Final date to drop May-to-June F section courses without academic penalty ⁽⁶⁾
T May 31	Students who started prior to the Summer session pay any remaining Summer session (May to August) fees by this date to avoid incurring service charges
June	June Convocation information and dates are posted at www.convocation.utoronto.ca
M June 20	Final date to drop May-to-August session Y section courses without academic penalty ⁽⁶⁾
F June 24	Final date to enrol in July coursework-only programs
F July 1	Canada Day holiday (University closed)
M July 4	Final date to enrol in July-to-August courses ⁽⁷⁾
F July 15	Coursework must be completed and grades submitted for May-to-June F section courses ⁽⁴⁾
M July 18	Final date to drop July-to-August S section courses without academic penalty ⁽⁶⁾

Sessional Dates 2015-2016

W July 20

Grades for May-to-June F section courses available for viewing by students on Student Web Services (ROSI/ACORN)

(1) The precise dates of commencement of courses are determined by the graduate units; students are urged to contact the relevant graduate units for information. SGS maintains the 13-week graduate instruction period; however, if a course does not fall into the traditional 13-week period, the graduate unit will inform students of important dates and deadlines in the course syllabus. This year, the first day of classes is September 14, 2015, which falls on the religious holiday of Rosh Hashanah. There are also important religious holidays the following week (Eid-al-Adha and Yom Kippur). The University welcomes and includes students, staff, and faculty from a wide range of cultural, traditional, and spiritual beliefs. As per the Policy on Scheduling of Classes and Examinations and Other Accommodations for Religious Observances, the University will "...arrange reasonable accommodation of the needs of students who observe religious holy days other than those already accommodated by ordinary scheduling and statutory holidays." For more information, please refer to the Accommodations for Religious Observances guidelines. The obligation not to discriminate on the basis of religion is a statutory duty arising from the Ontario Human Rights Code, which carries an obligation to accommodate religious requirements. It is the University's expectation that instructors will arrange reasonable accommodation for those students observing Rosh Hashanah.

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 appropriate undergraduate calendar for enrolment and dates.

(2) A final thesis is the corrected, approved version of thesis which is submitted to SGS following the Final Oral Examination.

(3) 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.

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

(5) These are the dates which have been established for undergraduate students in the Faculty of Arts and Science. Not all Faculties offer Reading Week or a November Pause. To find out if your Faculty offers a Reading Week or November Pause, please contact them directly. SGS does not have a Reading Week or November Pause.

(6) Graduate units may establish earlier deadlines to add/drop courses but these dates must clearly be communicated to students. 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.

Division I: Humanities

- Ancient and Medieval Philosophy (CP)
- Ancient Greek and Roman History (CP)
- Architecture, Landscape, and Design (Visual Studies program)
- Art
- Book History and Print Culture (CP)
- Cinema Studies
- Classics
- Comparative Literature
- Diaspora and Transnational Studies (CP)
- Drama, Theatre and Performance Studies
- 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)
- Information (Museum Studies program)
- Italian Studies
- Linguistics
- Medieval 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

- Aging, Palliative and Supportive Care Across the Life Course (CP)
- Anthropology
- Applied Psychology and Human Development
- 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
- Economics
- Educational Policy (CP)
- Ethnic and Pluralism Studies (CP)
- European, Russian, and Eurasian Studies
- Geography and Planning
- Global Affairs
- Industrial Relations and Human Resources
- Information
- Law
- Leadership, Higher and Adult Education
- Management
- Management & Innovation (Investigative & Forensic Accounting; Management & Professional Accounting programs)
- Political Science
- Psychological Clinical Science
- Public Policy and Governance
- Sexual Diversity Studies (CP)
- Social Justice Education
- Social Work
- Sociology
- Workplace Learning and Social Change (CP)

Divisional Structure

Division III: Physical Sciences

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

Division IV: Life Sciences

- Aboriginal Health (CP)
- Addiction Studies (CP)
- Biochemistry
- Bioethics (CP)
- Biomedical Toxicology (CP)
- Management & Innovation
- Cardiovascular Sciences (CP)
- Cell and Systems Biology
- Dentistry
- Developmental Biology (CP)
- 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)
- Human Development (CP)
- Immunology
- Laboratory Medicine and Pathobiology
- Management & Innovation (Biotechnology; Management of Innovation; Sustainability Management programs)
- Medical Biophysics
- Medical Science
- Molecular Genetics
- Musculoskeletal Sciences (CP)
- Neuroscience (CP)
- Nursing Science
- Nutritional Sciences
- Occupational Science and Occupational Therapy
- Pharmaceutical Sciences
- Pharmacology and Toxicology
- Physical Therapy
- Physiology
- Psychology
- Public Health Sciences
- Rehabilitation Sciences
- Resuscitation Sciences (CP)
- Speech-Language Pathology
- Women's Health (CP)

Graduate Programs at a Glance

Degree Programs at a Glance

All degree programs are offered full-time unless otherwise indicated.

Legend

*	Admissions suspended
EFT	Extended full-time option
flex	Flexible-time program option available in addition to full-time program
p	Part-time option available in addition to full-time program
p~	Program only offered part-time

Graduate Unit	Program	Degrees
Aerospace Studies	Aerospace Science and Engineering	MASc, MEng ^{EFT,p} , PhD ^{flex}
Anthropology	Anthropology	MA ^p , MSc ^p , PhD
Applied Psychology and Human Development	Child Study and Education	MA
	Counselling and Clinical Psychology	MA, PhD
	Counselling Psychology	MEd ^p , EdD ^p
	Developmental Psychology and Education	MA, MEd ^p , PhD ^{flex}
Architecture, Landscape, and Design	School and Clinical Child Psychology	MA, PhD
	Architecture	MArch
	Landscape Architecture	MLA
	Urban Design	MUD
Art	Visual Studies	MVS
	History of Art	MA ^p , PhD
Astronomy and Astrophysics	Astronomy and Astrophysics	MSc, PhD
Biochemistry	Biochemistry	MSc, PhD
Biomedical Engineering	Biomedical Engineering	MASc, PhD
	Clinical Engineering	MHSc
Cell and Systems Biology	Cell and Systems Biology	MSc, PhD
Chemical Engineering and Applied Chemistry	Chemical Engineering and Applied Chemistry	MASc, MEng ^{EFT,p} , PhD ^{flex}
Chemistry	Chemistry	MSc, PhD
Cinema Studies	Cinema Studies	MA, PhD
Civil Engineering	Cities Engineering and Management	MEngCEM ^{EFT}
	Civil Engineering	MASc, MEng ^{EFT,p} , PhD
Classics	Classics	MA ^p , PhD
Comparative Literature	Comparative Literature	MA, PhD
Computer Science	Applied Computing	MScAC

Graduate Programs at a Glance

	Computer Science	MSc ^p , PhD
Criminology and Sociolegal Studies	Criminology	MA ^p , PhD
Curriculum, Teaching and Learning	Curriculum Studies and Teacher Development	MA ^p , MEd ^p , PhD ^{flex}
	Language and Literacies Education	MA ^p , MEd ^p , PhD ^{flex}
	Teaching	MT
Dentistry	Dentistry	MSc ^p , PhD ^{flex}
Design and Manufacturing	Design and Manufacturing	MEngDM ^{p~*}
Drama, Theatre and Performance Studies	Drama, Theatre and Performance Studies	MA ^p , PhD
Earth Sciences	Earth Sciences	MASc, MSc ^p , PhD
East Asian Studies	East Asian Studies	MA, PhD
Ecology and Evolutionary Biology	Ecology and Evolutionary Biology	MSc, PhD
Economics	Economics	MA ^p , PhD
	Financial Economics	MFE
Electrical and Computer Engineering	Electrical and Computer Engineering	MASc, MEng ^{EFT, p} , PhD
English	English	MA ^p , PhD
European, Russian, and Eurasian Studies	European and Russian Affairs	MA
Exercise Sciences	Exercise Sciences	MSc ^p , PhD ^{flex}
Forestry	Forest Conservation	MFC ^{EFT, p}
	Forestry	MScF, PhD
French Language and Literature	French Language and Literature	MA ^p , PhD
Geography and Planning	Geography	MA ^p , MSc ^p , PhD
	Planning	MScPl ^p , PhD
	Urban Design Studies	MUDS*
Germanic Languages and Literatures	Germanic Languages and Literatures	MA ^p
	German Literature, Culture and Theory	PhD
Global Affairs	Global Affairs	MGA
Health Policy, Management and Evaluation	Health Administration	MHSc
	Health Informatics	MHI
	Health Policy, Management and Evaluation	MSc ^p , PhD ^{flex}
History	History	MA ^p , PhD ^{flex}
History and Philosophy of Science and Technology	History and Philosophy of Science and Technology	MA ^p , PhD ^{flex}
Immunology	Immunology	MSc, PhD
Industrial Relations and Human Resources	Industrial Relations and Human Resources	MIRHR ^p , PhD

Graduate Programs at a Glance

Information	Information	MI ^p
	Information Studies	PhD ^{flex}
	Museum Studies	MMS
Italian Studies	Italian Studies	MA ^p , PhD
Laboratory Medicine and Pathobiology	Laboratory Medicine and Pathobiology	MSc, PhD
Law	Global Professional Law	GPLLM
	Law	LLM ^p , MSL, SJD
Leadership, Higher and Adult Education	Adult Education and Community Development	MA ^p , MEd ^p , PhD ^{flex}
	Educational Leadership and Policy	MA ^p , MEd ^p , EdD ^p , PhD ^{flex}
	Higher Education	MA ^p , MEd ^p , EdD ^p , PhD ^{flex}
Linguistics	Linguistics	MA, PhD
Management	Finance	MF ^p
	Management	MBA ^{EFT} , PhD
Management and Innovation	Biotechnology	MBiotech
	Management and Professional Accounting	MMPA
	Management of Innovation	MMI
	Sustainability Management	MScSM
Materials Science and Engineering	Materials Science and Engineering	MASc, MEng ^{EFT, p} , PhD
Mathematical Finance	Mathematical Finance	MMF ^p
Mathematics	Mathematics	MSc ^p , PhD
Mechanical and Industrial Engineering	Mechanical and Industrial Engineering	MASc, MEng ^{EFT, p} , PhD ^{flex}
Medical Biophysics	Medical Biophysics	MSc, PhD
Medical Science	Bioethics	MHSc ^{p~}
	Biomedical Communications	MScBMC
	Medical Radiation Sciences	MHSc ^{EFT}
	Medical Science	MSc, PhD
	Translational Research in the Health Sciences	MHSc
Medieval Studies	Medieval Studies	MA ^p , PhD
Molecular Genetics	Genetic Counselling	MSc
	Molecular Genetics	MSc, PhD
Music	Music	MA ^p , PhD ^{flex}
	Music Performance	MMus, DMA
Near and Middle Eastern Civilizations	Near and Middle Eastern Civilizations	MA ^p , PhD
Nursing Science	Nursing Science	MN, PhD
Nutritional Sciences	Nutritional Sciences	MSc ^p , PhD

Graduate Programs at a Glance

Occupational Science and Occupational Therapy	Occupational Therapy	MScOT
Pharmaceutical Sciences	Pharmaceutical Sciences	MSc ^p , PhD ^{flex}
Pharmacology and Toxicology	Pharmacology	MSc ^p , PhD
Philosophy	Philosophy	MA ^p , PhD
Physical and Environmental Sciences	Environmental Science	MEnvSc ^p , PhD
Physical Therapy	Physical Therapy	MScPT
Physics	Physics	MSc, PhD
Physiology	Physiology	MSc, PhD
Political Science	Political Science	MA ^p , PhD
Psychological Clinical Science	Counselling and Clinical Psychology	MA, PhD
Psychology	Psychology	MA, PhD
Public Health Sciences	Community Health	MScCH ^p
	Public Health Sciences	MPH ^p , MSc ^p , PhD ^{flex}
Public Policy and Governance	Public Policy	MPP
Rehabilitation Sciences	Rehabilitation Science	MSc ^p , PhD
	Speech-Language Pathology	MSc, PhD
Religion	Religion	MA ^p , PhD
Slavic Languages and Literatures	Slavic Languages and Literatures	MA, PhD
Social Justice Education	Social Justice Education	MA ^p , MEd ^p , EdD ^p , PhD ^{flex}
Social Work	Social Work	MSW ^p , PhD
Sociology	Sociology	MA ^p , PhD
Spanish	Spanish	MA ^p , PhD
Speech-Language Pathology	Speech-Language Pathology	MHSc
Statistical Sciences	Statistics	MSc ^p , PhD
Women and Gender Studies	Women and Gender Studies	MA, PhD

Combined Degree Programs at a Glance

Legend

* Admissions suspended

Undergraduate / Master's Degree Programs

Degrees in the Combination	Combined Degree Program
BASc / MBA	The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Master of Business Administration
HBA / MI	UTM, Honours Bachelor of Arts, Major in Communication, Culture, Information and Technology / Master of Information
HBA / MI	UTM, Honours Bachelor of Arts, Specialist in Digital Enterprise Management / Master of Information
HBA / MI	UTM, Honours Bachelor of Arts, Specialist in Interactive Digital Media / Master of Information
HBA / MScSM	UTM, Honours Bachelor of Arts, Major in Environmental Management / Master of Science in Sustainability Management
HBA / MScSM	UTM, Honours Bachelor of Arts, Specialist in Environmental Management / Master of Science in Sustainability Management
HBSc / MScSM	UTM, Honours Bachelor of Science, Major in Environmental Science / Master of Science in Sustainability Management
HBSc / MScSM	UTM, Honours Bachelor of Science, Specialist in Environmental Science / Master of Science in Sustainability Management
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Chemical Engineering and Applied Chemistry
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Chemical Engineering and Applied Chemistry
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Civil Engineering, Master of Engineering
HBSc / MEng	UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Civil Engineering, Master of Engineering
HBSc / MSW	UTSC, Honours Bachelor of Science, Specialist in Mental Health Studies / Master of Social Work

Graduate Programs at a Glance

HBSc / MSW	UTSC, Honours Bachelor of Science, Specialist Co-op in Mental Health Studies / Master of Social Work
MusBac / MT	Bachelor of Music, Music, Stream in Music Education / Master of Teaching

Second-Entry Undergraduate / Master's Degree Programs

Degrees in the Combination Combined Degree Program

JD / MA	Law, Juris Doctor / Criminology, Master of Arts
JD / MA	Law, Juris Doctor / Economics, Master of Arts
JD / MA	Law, Juris Doctor / English, Master of Arts
JD / MA	Law, Juris Doctor / European and Russian Affairs, Master of Arts
JD / MBA	Law, Juris Doctor / Master of Business Administration
JD / MGA	Law, Juris Doctor / Master of Global Affairs
JD / MI	Law, Juris Doctor / Master of Information
JD / MPP	Law, Juris Doctor / Master of Public Policy
JD / MSW	Law, Juris Doctor / Master of Social Work
PharmD / MBA	Pharmacy, Doctor of / Master of Business Administration

Second-Entry Undergraduate / Doctoral Degree Programs

Degrees in the Combination Combined Degree Program

JD / PhD	Law, Juris Doctor / Economics, Doctor of Philosophy
JD / PhD	Law, Juris Doctor / Philosophy, Doctor of Philosophy
JD / PhD	Law, Juris Doctor / Political Science, Doctor of Philosophy
MD / PhD	Medicine, Doctor of / Doctor of Philosophy

Master's / Master's Degree Programs

Degrees in the Combination

Combined Degree Program

MHSc / MN*	Health Administration, Master of Health Science / Master of Nursing
MHSc / MSW	Health Administration, Master of Health Science / Master of Social Work
MBA / MGA	Management, Master of Business Administration / Master of Global Affairs

Collaborative Programs at a Glance

Program	Participating Degree Programs	Degrees
Aboriginal Health	Adult Education and Community Development Anthropology Counselling and Clinical Psychology Counselling Psychology Geography Medical Science Nutritional Sciences Public Health Sciences Social Justice Education	MA, MEd, PhD MA, MSc, PhD MA, PhD MEd, EdD MA, PhD MSc, PhD MSc, PhD MPH, PhD MA, MEd, EdD, PhD
Addiction Studies	Community Health Counselling and Clinical Psychology Criminology Information Information Studies Medical Science Pharmaceutical Sciences Pharmacology Psychology Public Health Sciences Social Work Sociology	MScCH MA, PhD MA, PhD MI PhD MSc, PhD MSc, PhD MSc, PhD MA, PhD MPH, MSc, PhD MSW, PhD MA, PhD
Aging, Palliative and Supportive Care Across the Life Course	Adult Education and Community Development Anthropology Counselling and Clinical Psychology Counselling Psychology Dentistry Exercise Sciences Health Administration Health, Policy, Management and Evaluation Information Information Studies Medical Science Music Nursing Science Pharmaceutical Sciences Psychology Public Health Sciences Rehabilitation Science Social Work Sociology Speech-Language Pathology Women and Gender Studies	MA, MEd, PhD MA, MSc, PhD MA, PhD MEd, EdD MSc, PhD MSc, PhD MHSc MSc, PhD MI PhD MSc, PhD MA, PhD MN, PhD MSc, PhD MA, PhD MPH, MSc, PhD MSc, PhD MSW, PhD MA, PhD MSc, PhD MA
Ancient and Medieval Philosophy	Classics Medieval Studies Philosophy	PhD PhD PhD
Ancient Greek and Roman History	Classics (University of Toronto) History (York University)	PhD PhD

Graduate Programs at a Glance

Asia-Pacific Studies	Anthropology	MA
	East Asian Studies	MA
	Geography	MA
	Global Affairs	MGA
	History	MA
	Management	MBA
	Planning	MScPI
	Political Science	MA
	Public Policy	MPP
	Social Work	MSW
	Sociology	MA
	Women and Gender Studies	MA
Bioethics	Health Administration	MHSc
	Health Policy, Management and Evaluation	MSc, PhD
	Law	LLM, SJD
	Medical Science	MSc, PhD
	Nursing Science	MN, PhD
	Pharmaceutical Sciences	MSc, PhD
	Philosophy	MA, PhD
	Public Health Sciences	MPH, MSc, PhD
	Rehabilitation Science	MSc, PhD
	Religion	MA, PhD
	Social Work	PhD
	Women and Gender Studies	MA
Biomedical Engineering	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 Biophysics	MSc, PhD
	Medical Science	MSc, PhD
	Pharmaceutical Sciences	MSc, PhD
	Physics	MSc, PhD
	Physiology	MSc, PhD
	Rehabilitation Science	MSc, PhD
Biomedical Toxicology	Laboratory Medicine and Pathobiology	MSc, PhD
	Medical Science	MSc, PhD
	Nutritional Sciences	MSc, PhD
	Pharmaceutical Sciences	MSc, PhD
	Pharmacology	MSc, PhD

Graduate Programs at a Glance

Book History and Print Culture	Classics	MA, PhD
	Comparative Literature	MA, PhD
	East Asian Studies	MA, PhD
	English	MA, PhD
	French Language and Literature	MA, PhD
	Germanic Languages and Literatures	MA
	German Literature, Culture and Theory	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
	Language and Literacies Education	MA, MEd, PhD
	Medieval Studies	MA, PhD
	Museum Studies	MMSt
	Music	MA, PhD
	Religion	MA, PhD
	Spanish	MA, PhD
Cardiovascular Sciences	Biomedical Engineering	MASc, PhD
	Chemical Engineering and Applied Chemistry	MASc, PhD
	Clinical Engineering	MHSc
	Dentistry	MSc, PhD
	Exercise Sciences	MSc, PhD
	Laboratory Medicine and Pathobiology	MSc, PhD
	Medical Biophysics	MSc, PhD
	Medical Science	MSc, PhD
	Pharmaceutical Sciences	MSc, PhD
	Pharmacology	MSc, PhD
	Physiology	MSc, PhD
	Rehabilitation Science	MSc, PhD
Community Development	Adult Education and Community Development	MA, MEd
	Counselling and Clinical Psychology	MA
	Counselling Psychology	MEd
	Geography	MA
	Planning	MScPI
	Public Health Sciences	MPH
	Social Work	MSW
Comparative, International and Development Education	Adult Education and Community Development	MA, MEd, PhD
	Curriculum Studies and Teacher Development	MA, MEd, PhD
	Educational Leadership and Policy	MA, MEd, EdD, PhD
	Higher Education	MA, MEd, EdD, PhD
	Language and Literacies Education	MA, MEd, PhD
	Social Justice Education	MA, MEd, EdD, PhD
Developmental Biology	Biochemistry	MSc, PhD
	Biomedical Engineering	MASc, PhD
	Cell and Systems Biology	MSc, PhD
	Immunology	MSc, PhD
	Laboratory Medicine and Pathobiology	MSc, PhD
	Medical Science	MSc, PhD
	Molecular Genetics	MSc, PhD
	Physiology	MSc, PhD

Graduate Programs at a Glance

Diaspora and Transnational Studies	Anthropology Cinema Studies Comparative Literature Criminology Drama, Theatre and Performance Studies English Geography Germanic Languages and Literature German Literature, Culture and Theory History History of Art Near and Middle Eastern Civilizations Political Science Religion Slavic Languages and Literatures Social Justice Education Sociology Spanish Women and Gender Studies	MA, MSc, PhD MA MA, PhD MA, PhD MA, PhD MA PhD MA, MSc, PhD MA PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, MEd, EdD, PhD MA, PhD MA, PhD MA, PhD
Earth Sciences and Physics	Earth Sciences Physics	MSc, PhD MSc, PhD
Editing Medieval Texts	Classics English History Italian Studies Medieval Studies Music Philosophy Religion Spanish	PhD PhD PhD PhD PhD PhD PhD PhD PhD
Educational Policy	Adult Education and Community Development Curriculum Studies and Teacher Development Developmental Psychology and Education Educational Leadership and Policy Higher Education Language and Literacies Education Social Justice Education	MA, MEd, PhD MA, MEd, PhD MA, MEd, PhD MA, MEd, EdD, PhD MA, MEd, EdD, PhD MA, MEd, PhD MA, MEd, EdD, PhD
Engineering Education	Chemical Engineering and Applied Chemistry Civil Engineering Curriculum Studies and Teacher Development Mechanical and Industrial Engineering	MSc, PhD MSc, PhD MA, PhD MSc, PhD
Environment and Health	Community Health Environmental Science Geography Medical Science Planning Public Health Sciences Women and Gender Studies	MScCH PhD MA, MSc, PhD MSc, PhD MScPI, PhD MPH, PhD MA, PhD
Environmental Engineering	Chemical Engineering and Applied Chemistry Civil Engineering Materials Science and Engineering Mechanical and Industrial Engineering	MSc, MEng, PhD MSc, MEng, PhD MSc, MEng, PhD MSc, MEng, PhD

Graduate Programs at a Glance

Environmental Studies	Adult Education and Community Development	MA, MEd, PhD
	Anthropology	MA, MSc, PhD
	Chemical Engineering and Applied Chemistry	MASc, MEng, PhD
	Chemistry	MSc, PhD
	Earth Sciences	MSc, PhD
	Ecology and Evolutionary Biology	PhD
	Forest Conservation	MFC
	Forestry	MScF, PhD
	Geography	MA, MSc, PhD
	Global Affairs	MGA
	Information	MI
	Information Studies	PhD
	Management	MBA, PhD
	Physics	MSc, PhD
	Planning	MScPI, PhD
	Political Science	MA, PhD
	Public Policy	MPP
	Religion	MA, PhD
	Social Justice Education	MA, MEd, EdD, PhD
	Sociology	MA, PhD
	Women and Gender Studies	MA, PhD
Ethnic and Pluralism Studies	Anthropology	MA, PhD
	Educational Leadership and Policy	MA, MEd, EdD, PhD
	European and Russian Affairs	MA
	Geography	MA, PhD
	History	MA, PhD
	Industrial Relations and Human Resources	MIRHR, PhD
	Language and Literacies Education	MA, MEd, PhD
	Political Science	MA, PhD
	Public Policy	MPP
	Religion	MA, PhD
	Social Justice Education	MA, MEd, EdD, PhD
	Social Work	MSW, PhD
	Sociology	MA, PhD
	Women and Gender Studies	MA, PhD
Genome Biology and Bioinformatics	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

Graduate Programs at a Glance

Global Health	Anthropology	PhD
	Chemical Engineering and Applied Chemistry	PhD
	Dentistry	PhD
	Geography	PhD
	Health Policy, Management and Evaluation	PhD
	Law	SJD
	Management	PhD
	Medical Science	PhD
	Nursing Science	PhD
	Pharmaceutical Sciences	PhD
	Planning	PhD
	Political Science	PhD
	Public Health Sciences	PhD
	Rehabilitation Science	PhD
Health Care, Technology, and Place	Biomedical Engineering	PhD
	English	PhD
	Health Policy, Management and Evaluation	PhD
	Mechanical and Industrial Engineering	PhD
	Medical Science	PhD
	Pharmaceutical Sciences	PhD
	Public Health Sciences	PhD
	Rehabilitation Science	PhD
	Social Work	PhD
Health Services and Policy Research	Exercise Sciences	MSc, PhD
	Health Policy, Management and Evaluation	MSc, PhD
	Pharmaceutical Sciences	MSc, PhD
	Public Health Sciences	PhD
	Rehabilitation Science	MSc
	Social Work	PhD
Human Development	Biomedical Engineering	PhD
	Developmental Psychology and Education	PhD
	Ecology and Evolutionary Biology	PhD
	Immunology	PhD
	Medical Science	PhD
	Medical Biophysics	PhD
	Music	PhD
	Nutritional Sciences	PhD
	Pharmacology	PhD
	Physiology	PhD
	Psychology	PhD
	Public Health Sciences	PhD
	Social Work	PhD

Graduate Programs at a Glance

Jewish Studies	Anthropology	MA, PhD
	Classics	MA, PhD
	Comparative Literature	MA, PhD
	Drama, Theatre and Performance Studies	MA, PhD
	English	MA, PhD
	European and Russian Affairs	MA
	Geography	PhD
	Germanic Languages and Literatures	MA
	German Literature, Culture and Theory	PhD
	History	MA, PhD
	History of Art	MA, PhD
	Information Studies	PhD
	Linguistics	PhD
	Medieval Studies	MA, PhD
	Museum Studies	MMSt
	Music	MA, PhD
	Music Performance	DMA
	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
Knowledge Media Design	Architecture	MArch
	Computer Science	MSc, PhD
	Curriculum Studies and Teacher Development	MA, MEd, PhD
	Drama, Theatre and Performance Studies	MA, PhD
	Information	MI
	Information Studies	PhD
	Landscape Architecture	MLA
	Language and Literacies Education	MA, MEd, PhD
	Mechanical and Industrial Engineering	MASc, MEng, PhD
	Medical Science	MSc, PhD
	Museum Studies	MMSt
	Religion	MA, PhD
	Urban Design	MUD
Musculoskeletal Sciences	Biomedical Engineering	MASc, PhD
	Dentistry	MSc, PhD
	Exercise Sciences	MSc, PhD
	Health Policy, Management and Evaluation	MSc, PhD
	Laboratory Medicine and Pathobiology	MSc, PhD
	Medical Science	MSc, PhD
	Rehabilitation Science	MSc, PhD

Graduate Programs at a Glance

Neuroscience	Biochemistry	MSc, PhD
	Biomedical Engineering	MASc, PhD
	Cell and Systems Biology	MSc, PhD
	Computer Science	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
	Music	MA, PhD
	Pharmaceutical Sciences	MSc, PhD
	Pharmacology	MSc, PhD
	Physiology	MSc, PhD
	Psychology	MA, PhD
	Rehabilitation Science	MSc, PhD
Optics	Chemistry	MSc
	Electrical and Computer Engineering	MASc
	Materials Science and Engineering	MASc
	Physics	MSc
Public Health Policy	Exercise Sciences	MSc, PhD
	Health Administration	MHSc
	Health Policy, Management and Evaluation	MSc, PhD
	Nutritional Sciences	MSc, PhD
	Public Health Sciences	MPH, MSc, PhD
	Public Policy	MPP
Resuscitation Sciences	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	MASc, 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

Graduate Programs at a Glance

Sexual Diversity Studies	Anthropology	MA, MSc, PhD
	Cinema Studies	MA
	Classics	MA, PhD
	Comparative Literature	MA, PhD
	Counselling Psychology	MEd, EdD
	Counselling and Clinical Psychology	MA, PhD
	Criminology	MA, PhD
	Curriculum Studies and Teacher Development	MA, MEd, PhD
	Drama, Theatre and Performance Studies	MA, PhD
	East Asian Studies	MA, PhD
	Educational Leadership and Policy	MA, MEd, EdD, PhD
	English	MA, PhD
	Exercise Sciences	MSc, PhD
	French Language and Literature	MA, PhD
	Geography	MA, PhD
	Higher Education	MA, MEd, EdD, 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
	Law	LLM, MSL, SJD
	Linguistics	MA, PhD
	Medieval Studies	MA, PhD
	Museum Studies	MMSt
	Music	MA, PhD
	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 Justice Education	MA, MEd, EdD, PhD
	Social Work	MSW, PhD
	Sociology	MA, PhD
	Visual Studies	MVS
	Women and Gender Studies	MA, PhD
South Asian Studies	Anthropology	MA, MSc, PhD
	Comparative Literature	MA, PhD
	Drama, Theatre and Performance Studies	MA, PhD
	East Asian Studies	MA, PhD
	English	MA, PhD
	Geography	MA, PhD
	History	MA, PhD
	Music	MA, PhD
	Political Science	PhD
	Religion	MA, PhD
	Social Justice Education	MA, MEd, EdD, PhD
	Women and Gender Studies	MA, PhD

Graduate Programs at a Glance

Women and Gender Studies	Adult Education and Community Development	MA, MEd, PhD
	Anthropology	MA, MSc, PhD
	Cinema Studies	MA
	Classics	MA, PhD
	Comparative Literature	MA, PhD
	Counselling and Clinical Psychology	MA, PhD
	Counselling Psychology	MEd, EdD
	Criminology	MA, PhD
	Curriculum Studies and Teacher Development	MA, MEd, PhD
	Drama, Theatre and Performance Studies	MA, PhD
	East Asian Studies	MA, PhD
	Educational Leadership and Policy	MA, MEd, EdD, PhD
	English	MA, PhD
	Exercise Sciences	MSc, PhD
	French Language and Literature	MA, PhD
	Geography	MA, MSc, PhD
	Germanic Languages and Literatures	MA
	German Literature, Culture and Theory	PhD
	Health Administration	MHSc
	Health Policy, Management and Evaluation	MSc, PhD
	Higher Education	MA, MEd, EdD, PhD
	History	MA, PhD
	Information	MI
	Information Studies	PhD
	Language and Literacies Education	MA, MEd, PhD
	Law	LLM, SJD
	Medieval Studies	MA, PhD
	Near and Middle Eastern Civilizations	MA, PhD
	Philosophy	MA, PhD
	Planning	MScPl, PhD
	Political Science	MA, PhD
	Public Health Sciences	MPH, PhD
	Religion	MA, PhD
	Social Justice Education	MA, MEd, EdD, PhD
	Social Work	MSW, PhD
	Sociology	MA, PhD
	Spanish	MA, PhD
Women's Health	Anthropology	MA, MSc, PhD
	Dentistry	MSc, PhD
	English	MA, PhD
	Exercise Sciences	MSc, PhD
	Health Policy, Management and Evaluation	MSc, PhD
	Immunology	MSc, PhD
	Information	MI
	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 and Gender Studies	MA, PhD

Graduate Programs at a Glance

Workplace Learning and Social Change	Adult Education and Community Development	MA, MEd, PhD
	Industrial Relations and Human Resources	MIRHR, PhD
	Rehabilitation Science	MSc, PhD
	Social Justice Education	MA, MEd, EdD, PhD
	Women and Gender Studies	MA

Diploma Programs at a Glance

All diploma programs are offered full-time unless otherwise indicated.

Legend

*	Admissions suspended
EFT	Extended full-time option
flex	Flexible-time program option available in addition to full-time program
p	Part-time option available in addition to full-time program
p~	Program only offered part-time

Graduate Unit	Program Name	Diploma
Information	Advanced Study in Information Studies	GDipISt ^p
Management	Professional Accounting	GDipPA
Management and Innovation	Investigative and Forensic Accounting	DIFA ^{p~}
Nursing Science	Master of Nursing (Nurse Practitioner Field) Concurrent Diploma in Anaesthesia Care	GDipNPAC*
	Post Master of Nursing (Nurse Practitioner Field) Diploma in Anaesthesia Care	GDipNPAC*
	Post-Master's Nurse Practitioner	DipNP ^p (PMNP)

General Regulations

General Regulations

All graduate students are accepted under the General Regulations of the School of Graduate Studies (SGS). See also Degree Regulations section and the program entries.

Exemptions

The Graduate Education Council of the School of Graduate Studies 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.

1.0 Organization of the School of Graduate Studies

2.0 Student Categories

3.0 Application for Admission to a Degree Program

4.0 Admission Policies and Procedures

5.0 Admission Regulations

6.0 Structure of Academic Programs

7.0 Registration and Enrolment

8.0 Good Academic Standing and Satisfactory Academic Progress, Time Limits, Supervision, and Candidacy

9.0 Graduate Student Supervision

10.0 Graduation

11.0 Academic Appeals Policy

12.0 Policies and Guidelines

1.0 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 has 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 Research and Education.

The Graduate Education Council is primarily responsible for determining policies and regulations affecting the administration and operation of graduate studies, 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 (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/centres/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.

1.5 Graduate Programs

Graduate programs are listed alphabetically in the Programs by Graduate Unit section of this calendar.

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 offers approximately 40 graduate collaborative programs (CPs). This program category emerges from cooperation between two or more graduate units and their graduate programs. The student has 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 fulfil all the requirements of the degree program in the home unit and any additional requirements of the CP. Each CP 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 Degree Programs

The University of Toronto offers over 35 combined degree programs (CDPs). This program category allows a student to study in two approved degree programs at the same time and to complete the requirements of both, providing a distinctive academic benefit to the student either through academic enrichment or academic acceleration. CDPs build on a strong academic rationale or synergy between the programs in the combination.

CDPs may embody the following combinations: undergraduate/graduate, second-entry undergraduate/graduate, or graduate/graduate. A CDP is an entity; the student is registered in a CDP as well as in the two participating degree programs. On successful completion of the CDP, the student receives two degrees.

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 two 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 of students 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

Full members may

- act as the sole or major supervisor of a doctoral or master's thesis for students in the graduate unit
- act as a member of thesis committees of students in any graduate unit, as appropriate
- serve as chair or voting member of a Final Oral Examination committee
- assume responsibility for the setting and marking of comprehensive (general) examinations
- teach, set, and mark examinations for a graduate course
- give such other graduate direction as may be required

Associate Members

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

Associate (restricted) members may be permitted to undertake the duties available to an associate member,

General Regulations

but only as specified in writing at the time that the graduate membership is offered.

Members Emeriti

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.

2.0 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 admitted as full-time special students and enrol in a full-time program of study not leading to a degree.

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. Visit the Prospective Visiting Students webpage for more information.

3.0 Application for Admission to a Degree Program

3.1 Procedures

1. Formal application for admission should be submitted using the SGS Online Admissions Application accessible through the graduate unit website. The exceptions are: MBA, MF, 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.
2. Applicants must pay an application fee of \$120; some graduate programs have set higher application fees. Payment is made online at the time of application using a Visa or Mastercard credit card. Application will not be processed until the application fee is received.
3. Applicants will be required to provide a copy of their complete academic record issued directly from the universities attended. Letters of reference are also required. Individual graduate units may require further documentation.
4. 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 deadline date for applicants to 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.

International applicants are recommended to begin early in the application cycle to ensure timely submission, particularly where special documentation (and/or translation) and proof of English-language proficiency are required.

Most programs commence in September. Some graduate units offer January admission. A few programs commence at other times. Consult the graduate unit concerned for more information.

3.3 Financial Assistance

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

General Regulations

3.4 Acceptance

Admission decisions are made by the graduate unit. The official acceptance letter is issued by the School of Graduate Studies. Admission 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, incidental, and ancillary), which is additional to the Fall and Winter session fees. Students engaged only in research must register but do not pay Summer session fees.

4.0 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 challenges of the program effectively.

The School of Graduate Studies regulations for admission specify minimal requirements only. Graduate units may have additional requirements and/or set higher than SGS minimum admission 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. Admission 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 5.0 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 5.0 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 5.0 Admission Regulations) and Degree Regulations for further information.

See Degree Regulations for specific details on degree transfers (master's to PhD and PhD to master's).

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 5.0 Admission Regulations, for further details.

Applicants accepted as special student, part-time must hold an appropriate bachelor's degree from a recognized university. See General Regulations (section 5.0 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 offers an advanced-standing option. Consult the graduate unit regarding advanced-standing options.

4.1.7 Eligibility of Students for Second Graduate Degree of Same Title

The University may confer upon a person more than one graduate degree having the same title, provided the degrees are completed in different disciplines 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 (non-standard) 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. The mere passage of time in a profession in and of itself is not sufficient.

This contribution and its impact on the profession must be detailed, documented, and presented as part of the application. Such applicants may be considered for (non-standard) admission if they can document that they have achieved qualifications at least equivalent to those

stated in the preceding sections and if a graduate unit so recommends. Applicants should explain why they think that their professional development activities or work experiences should be viewed as equivalent to academic work conducted at a university.

Examples of evidence may include but are not limited to:

- publications and/or research which is professionally relevant (including published papers, technical reports, or patents)
- a record of outstanding advancement in one's profession (e.g., progressive leadership roles, management of projects and personnel, professional or scientific citations, and awards)
- professional designations, diplomas, or certificates
- training or courses taken subsequent to the undergraduate degree and/or being an instructor of professional development courses to others in one's profession
- development of new skills over and above what would normally be expected in one's profession.

These cases will be presented to the School of Graduate Studies as non-standard admissions.

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 Proficiency

It is essential that all incoming graduate students have a good command of English. Proficiency 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 proficiency tests listed in the General Regulations, section 5.5 English-Language Proficiency Tests. 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 proficiency test.

General Regulations

5.0 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 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.

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 an appropriate bachelor's degree program.

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.

At least two letters of reference are required for full-time special students.

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 Proficiency Tests

Students must be able to communicate effectively in English for studies at the University of Toronto.

Applicants from outside Canada whose primary language is not English, and who were educated in a university outside Canada where the primary language of instruction and examination in the full academic program is not English, must demonstrate English proficiency to acceptable standards through an acceptable language proficiency test (tests described below).

Minimum scores are indicated; however, many graduate units require a higher score. See the graduate unit entry in the Degree and Diploma Programs by Graduate Unit section of this calendar to determine whether a higher minimum score applies.

5.5.1 Test of English as a Foreign Language (TOEFL)

Educational Testing Service (ETS)

Web: www.ets.org/toefl

The TOEFL examination is offered in two formats:

1. the Internet-based format (iBT) offered year-round
2. the paper-based format (PBT) only offered on specific dates in a limited number of countries

The iBT TOEFL must include the writing and speaking sections.

The PBT TOEFL must include the Test of Written English (TWE) component.

All applicants must satisfy the minimum TOEFL score requirements set by each of the four SGS academic divisions listed in the following chart.

TOEFL Minimum Score Requirements Consult the graduate unit to which you are applying to determine if a higher minimum score is required.		
Academic Division	Internet-Based Test (TOEFL iBT) Including Writing and Speaking Sections	Paper-Based Test (TOEFL PBT) and TWE
I. Humanities	Overall score: 93 Writing: 22 Speaking: 22	Overall score: 580 TWE: 5
II. Social Sciences	Overall score: 93 Writing: 22 Speaking: 22	Overall score: 580 TWE: 5
III. Physical Sciences	Overall score: 93 Writing: 22 Speaking: 22	Overall score: 580 TWE: 4
IV. Life Sciences	Overall score: 93 Writing: 22 Speaking: 22	Overall score: 580 TWE: 5

5.5.2 International English Language Testing System (IELTS)

Web: www.ielts.org

Required score: 7.0

5.5.3 Academic English Level 60

School of Continuing Studies University of Toronto

Web: <http://english.learn.utoronto.ca>

Required score: B

5.5.4 Michigan English Language Assessment Battery (MELAB)

Web: www.cambridgemichigan.org

Required score: 85

5.5.5 The Certificate of Proficiency in English (COPE)

English Language Diagnosis and Assessment (ELDA)

Web: www.copetest.com

Required score: 76 minimum total with at least 22 in each component and 32 in writing

6.0 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:

- Fall (F) session (September to December)
- Winter (W) session (January to April)
- Summer (S) session (May to August)

6.2 Academic Programs

Academic programs leading to graduate degrees and diplomas 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 Degree and Diploma Programs by Graduate Unit section of this calendar.

6.3 Program Length

Master's and Professional Doctoral Programs

Program length refers to the period of time (in sessions or academic years) for an academically well-prepared student to complete a master's or professional doctoral program while registered full-time.

Program length is established at the time of initial approval of the program. See established program length for individual programs in the *SGS Calendar*.

The typical registration sequence for full-time master's programs is shown in individual graduate unit entries; for example, the F/W/S abbreviation is used for Fall/Winter/Summer.

Changes to program length for existing programs are made by the graduate unit and the Division in consultation with the School of Graduate Studies. The program length is the period of time upon which the minimum degree fee is based. Actual time to complete a program may vary for individual students.

PhD Programs

The program length for PhD programs is established through the PhD Degree Regulations in the *SGS Calendar*.

See Minimum Degree Fee section immediately following.

6.4 Minimum Degree Fee¹

Master's Programs

The minimum degree fee is the fee associated with the program length for each graduate master's program and represents the minimum amount of tuition that every student, regardless of registration option or status, must pay upon completion of the program prior to graduation.

PhD and Professional Doctoral Programs

The minimum degree fee for PhD and professional doctoral programs is the fee associated with one year (three sessions) of full-time studies and represents the minimum amount of tuition that every PhD or professional doctoral student, regardless of registration status or option, must pay upon completion of the program prior to graduation.

All students are subject to tuition and fees for each session and year of registration, including sessions following the defined program length, until the program is completed.

¹ Full-time program length is associated with Minimum Degree Fee that is based on Fall session as the start of the program, even if some students commence the program in the Winter or Summer session.

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 program 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 program. The time limit for all graduate degrees and combined programs are as follows:

PhD	6 years (7 years for direct-entry, i.e., 5-year PhD students)
Flexible-time PhD program option	6 to 8 years (depending upon program)
Professional doctoral	5 to 6 years
Full-time master's	3 years (except for the MArch: 4 years)
Part-time master's	6 years

Combined degree programs	Time limit is established for each combined degree program. The time limit will be set at one year (or two for doctoral programs) beyond the established combined program length.
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See Degree Regulations and General Regulations (section 7.1.11 Extension of Time for Completion of Degree Requirements) for more information.

7.0 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 academic activity or component of a program of study.

The complete policy on Association, Admission, and Registration is available on the University of Toronto website.

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. The first step to registration is the payment of fees or arrangements to pay such fees. A student is considered to be registered once any conditions of admission have been satisfied and academic, incidental, and ancillary fees are paid or a fees arrangement has been made. New students who have received a conditional offer of admission should make arrangements with their graduate unit to clear conditions as soon as possible.

New graduate students will receive registration instructions prior to the registration dates listed in the Sessional Dates. Students may access registration instructions from the SGS website.

Students registering in programs offered by the Ontario Institute for Studies in Education (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 Student Web Services (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.

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:

General Regulations

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 Extended Full-Time (EFT) Studies

The EFT option permits an additional year of full-time studies to complete the program, in programs where the option is offered.

1. The EFT registration option is available in professional master's or professional doctoral programs where offered. Registration is full-time. A prescribed path to completion over the extended period is set out in the graduate unit's calendar entry.
2. Full-time time limits apply to this option; the extended period may not exceed the time limit for the full-time program.
3. Students are charged the equivalent of the minimum degree fee which is spread out over the extended period; full-time incidental fees apply for each year of registration.
4. Students who do not complete the program in the prescribed period may apply for an extension and will be subject to the usual extension regulations².
5. Transfers between the EFT registration option and any other registration option are not permitted.
6. Students in this option are subject to the rules and conditions of full-time studies as set out in the Full-Time Studies section below.

² The time limit for full-time master's students is 3 years; the time limit for professional doctoral programs is 5 or 6 years. A student who does not complete within the time limit would require an approved extension (up to 3 allowed for master's programs and 4 for doctoral programs). In the extension year, the student would be registered full-time, pay 50% of full-time tuition (not the EFT fee) and pay full-time incidental fees (see Fees and Financial Support, section on Fees for Students on Extension).

7.1.4 Part-Time Studies

1. Part-time studies are permitted in those master's degree programs that are approved to offer part-time studies.
2. A student in part-time studies may enrol over the course of each academic year normally in a maximum of one-third of the annual program requirements, as defined by the graduate unit; enrolment each session by part-time students is subject to graduate unit approval.
3. A prescribed path to completion may or may not be provided for part-time studies; where provided, it will be set out in the graduate unit's entry in the *SGS Calendar*.
4. A student who is registered in part-time studies is subject to the minimum degree fee (see General Regulations, section 6.4 Minimum Degree Fee).
5. Transfer from part-time studies to full-time studies requires the approval of the graduate unit and may not be permitted in some programs.
6. Transfer from part-time studies to the extended full-time registration option is not permitted.
7. See time limits for part-time studies (General Regulations section 6.6).
8. Part-time special (non-degree) students may take a maximum of 0.5 or 1.0 full course equivalent (FCE) in any session as approved by the graduate unit; work does not count for degree credit.

7.1.5 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. For further information, see Degree Regulations, Doctoral Degrees, PhD, Admission Requirements, section 13.1.1.3 Flexible-Time PhD Program Option; and Program Requirements, section 13.1.3.3 Flexible-Time PhD Program Option.

7.1.6 Summer Session Courses

Students attending formal courses or engaging in research or project work in the summer 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 to August or January to 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 to 14 weeks while others will meet for only 7 weeks.

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

7.1.7 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.

7.1.8 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 or have an approved leave of absence.

7.1.8.1 Master's Students: Continuous Registration

Once they have first registered, full-time, part-time, and extended full-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 program length defined for the program may not register as part-time students.

7.1.8.2 Master's Students: Coursework-Only

Full-time master's students in coursework-only programs must register initially for the program length defined for the program 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 program length defined for the 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 7.1.11 Extension of Time for Completion of Degree Requirements.

7.1.8.3 Doctoral Students

All doctoral students must register annually until all degree requirements have been fulfilled. See General Regulations section 7.1.11 Extension of Time for Completion of Degree Requirements for further details.

7.1.9 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 section of this calendar.

7.1.10 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.

7.1.11 Extension of Time for Completion of Degree Requirements

7.1.11.1 Master's Students

In exceptional circumstances, a master's student who did not complete all the requirements for the degree within the time limit 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 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.

General Regulations

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

7.1.11.2 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 qualify for an extension, the student must complete the Program Extension Form 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 section, Fees for Students on Extension, in this calendar.

7.1.12 Joint Educational Placement for Doctoral Students

Joint Educational Placement is a registration option available for full-time study towards the earning of a doctorate at the University of Toronto and a recognized collaborator institution. The Joint Educational Placement is intended to allow exceptional doctoral students to pursue research opportunities and acquire research experience in two institutions at an early stage in their career.

Applicants must meet the admission, registration, and degree requirements of both SGS and the joint institution. To be considered for this option, an applicant will complete the Agreement for a Joint Educational Placement (see below), must be recommended for admission as a full-time doctoral degree student, and must be deemed admissible by both institutions. Applications are assessed case by case by the graduate unit in consultation with SGS.

At the time of application to the Joint Educational Placement, the applicant designates one of the partner institutions as the lead institution, the other as the collaborator. For students who designate the University of Toronto as the lead institution, the Agreement must be completed prior to achieving candidacy. Regardless of whether the University of Toronto is the lead or collaborator institution, all U of T course requirements for the doctoral degree must be met as defined in the graduate unit entry in the *SGS Calendar*.

The academic and research program of a student enrolled in a Joint Educational Placement should be based on ongoing or developing research collaboration between supervisors and/or research groups in the

two participating institutions. Students enrolled at the University of Toronto as the lead institution who successfully complete the requirements of the program receive a U of T degree and may participate in a U of T convocation ceremony.

For the agreement form and additional information, visit the SGS web page on Joint Placement Students.

7.1.13 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.
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 to January 31 or January 1 to 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 the deadlines that are in the SGS Sessional Dates. 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.

7.1.14 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.

7.1.15 Leave Policy

Graduate students 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 graduate unit.

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. Master's students whose programs do not require continuous registration may "stop out" as an alternative to taking a formal leave—see section 7.1.8.2 Master's Students: Coursework-Only.

Students may make application for a leave by completing the Leave of Absence Form 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.

7.1.16 Withdrawal From a Graduate Program

A student may withdraw voluntarily from their program at any point. In order to withdraw from a program, a student first must submit a Program Withdrawal Form to the graduate unit and then to SGS. The withdrawal is recorded on the student academic record and reflected on the transcript, and the University determines fee rebates, if applicable. An application for re-admission by a student who has withdrawn will be made in competition with all other applicants.

7.1.17 Graduate Courses and Other Academic Activities

See also SGS guidelines on Graduate Courses and Other Academic Activities on the SGS website.

7.1.17.1 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 as minor modifications. All graduate courses must have an instructor in charge who has a graduate faculty membership in the graduate unit(s) responsible for the course.

Graduate courses may vary in timing, weight, delivery mode, and format, and course codes may serve as markers for Other Academic Activities. See the guidelines on Graduate Courses and Other Academic Activities including Program Examinations available from the SGS website. If a course is not offered for more than five years, it becomes inactive and SGS will archive the course in the Student Web Services (ROSI). See also the SGS guidelines for De-activating/ Archiving and Re-activating Graduate Courses on the SGS website.

7.1.17.2 Course Code and Weight

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

General Regulations

A full graduate course (course weight of 1.0 full-course equivalent [FCE]) should involve a minimum of 48 to 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.

7.1.17.3 Other Academic Activities Including Program Examinations

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 theses, major research papers, placements (including field work, clinical placements, and internships) and program examinations, etc.

Included in the category of program examinations are examinations such as comprehensive, qualifying, and field examinations. See individual program requirements in the Programs by Graduate Unit section of this calendar. Individual program requirements will identify the:

- different components of each examination;
- format of each examination and its components, if any;
- deadlines and timelines associated with required completion of examinations; and
- consequences for failure of a required examination and/or its components, including information about the number of attempts permitted to satisfactorily complete the examination.

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 regarding 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. Most formal Winter session classes and seminars begin during the first week of January. Most formal Summer session classes begin in May. However, starting dates are determined by the graduate units; students are urged to contact the relevant graduate unit for information.

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 an Add/Drop Course(s) Form or by using Student Web Services (www.rosi.utoronto.ca), if the graduate unit permits access.

In order to avoid academic penalties, courses must be dropped by the following deadlines:

Sep. 28, 2015	Deadline to add full courses (Y) and Fall session half courses (H).
Nov. 2, 2015	Deadline to drop a Fall session full course or half course without academic penalty.
Jan. 25, 2016	Deadline to add Winter session full courses (Y) and half courses (H).
Mar. 1, 2016	Deadline to drop a full course (Y) or Winter session half course (H), or withdraw from a program without academic penalty.
May 9, 2016	Deadline to add Summer session May to June half courses (H) or May to August full courses (Y).
May 27, 2016	Deadline to drop a May to June half course without academic penalty.
Jun. 20, 2016	Deadline to drop a May to August full course without academic penalty.
Jul. 4, 2016	Deadline to enrol in July to August half courses (H).
Jul. 18, 2016	Deadline to drop a July to August half course without academic penalty.

Students enrolled in coursework-only programs who drop all courses by the deadlines must withdraw from the program. See General Regulations, section 7.1.16 Withdrawal From a Graduate Program.

Some graduate units offer modular courses which have enrolment deadlines that do not conform to the deadlines in the above chart. Modular courses with non-standard start/end dates require the graduate unit to establish suitable drop dates.

7.2.3 Exceptional Circumstances Affecting Student Performance

Students with health problems or other personal circumstances which may adversely affect their performance in, or their ability to complete coursework, examinations, or other departmental or graduate program assessments may request special consideration.

Written requests, supported by a medical certificate or other appropriate evidence, must be submitted to the instructor or the Coordinator of Graduate Studies as soon as possible or no later than two business days following the deadline or date of assessment. If a medical certificate is submitted, it must confirm the student was adversely affected by health problems and must show the dates of illness and that the physician was consulted at the time of the illness.

If a student is affected by health problems or other personal circumstances during an examination that affect the completion of the examination, the student must notify the instructor or invigilator immediately; that is, the student should not wait until the end of the examination. Such notification must be followed up with a written request for special consideration as above.

7.2.4 Completion of Coursework and Grade Submission

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

Jan. 15, 2016	Fall session (Y, H) courses
May 13, 2016	Fall/Winter session (Y) and Winter session (Y, H) courses *For students receiving degrees at June convocation, grades must be submitted by April 17.
Jul. 15, 2016	May/June Summer session courses
Sept. 9, 2016	July/August Summer session courses and extended courses

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.

7.2.5 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. Students must be registered in the session in which they are completing coursework extensions.

7.2.5.1 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.

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.

7.2.5.2 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.

7.2.5.3 Deadlines for Course Extensions

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:

May 13, 2016	Fall session (Y, H) courses
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General Regulations

Sept. 9, 2016	Fall/Winter session (Y) and Winter session (Y, H) courses
Jan. 6, 2017	Summer session courses and extended courses

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.

7.2.5.4 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.

7.2.5.5 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.

7.2.6 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.

7.2.7 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.

7.2.8 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 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 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.

7.2.9 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.

8.0 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 towards 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 graduate program leading to the relevant degree. The specific requirements for the various graduate programs offered in the School of Graduate Studies are described 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.

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8.2 Full-Time Students

Students must meet the full-time studies requirements to be in good academic standing—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 towards 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 timeline 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 towards 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.

Doctoral Degree Program Categories	Time Limit to Achieve Candidacy
PhD, four-year program	by end of third year
PhD, five-year program (direct-entry)	by end of fourth year
Flexible-time PhD program option	by end of fourth year
Professional doctoral program, full-time	by end of third year
Professional doctoral program, part-time	by end of fourth year

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 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 chosen from among the graduate faculty members of the graduate unit 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).

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

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 Degree and Diploma Programs by Graduate Unit section.

9.0 Graduate Student Supervision

9.1 Thesis Topic and Supervision

A thesis is a piece of scholarly writing. 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 from among the graduate faculty members available in the graduate unit 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.

In addition, updated statements must be made available to students on a regular basis. These will include 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, the procedure must contain, at minimum, a supervisory committee that:

1. consists of the supervisor, chosen from among the graduate faculty members of the graduate unit in which the student is registered, 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, 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 must be a recognized expert on the subject of the thesis and must 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 examination committee at least four weeks in advance of the examination date.

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 two voting members 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. A quorum is four voting members, two of whom must not have been closely involved in the supervision of the thesis. 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, via ROSI, 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 fulfil the requirements of the doctoral degree. In addition to determining the adequacy of the

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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, two of whom must not have been closely involved in the thesis, 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 examination 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 modification, 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 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 the Producing Your Thesis section of the SGS website.

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 the digital research repository for the University of Toronto community (www.etsadmin.com/toronto).

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 and 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. The preservation and public dissemination of original dissertation research is a principle to which the University, as a publicly funded institute of higher education, is strongly committed. Unrestricted release of theses means permanent worldwide access through the Internet. Students retain copyright on the thesis as the thesis author.

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.

Students must agree to the Library and Archives Canada Theses Non-exclusive License when making an electronic submission; any necessary copyright permissions will be uploaded to the digital research repository at this time.

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 Producing Your Thesis section of the SGS website.

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.

10.0 Graduation

10.1 Degree Recommendations

When all requirements for a **master's degree program** or **graduate diploma program** have been fulfilled, the graduate unit is required to submit a degree recommendation 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 (instead diplomas are mailed to graduands), or attend the ceremony in June.

The School of Graduate Studies will not release the official diploma to students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. See section 12.9.1 Refusal of Access to Official Student Academic Records.

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

11.0 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 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 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 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.

Steps and Timelines		
Timeline for Student Action at Each Stage See Note A below	Step See Note B below	Timeline for Decision/Action by University Body at Each Stage See Note C below
	1. Informal a. Student to instructor b. Student to Graduate Coordinator	
8 weeks from date of decision being appealed	2. Graduate-Unit-Level Appeal Notice of Appeal to GDAAC ¹ Note: Appeals related to failure of the Final PhD Oral Examination or to termination of registration in a graduate program must be made directly to GAAB ² ; see Step 3b below.	8 weeks from filing of Notice of Appeal to GDAAC ¹
a. 8 weeks from decision of graduate unit Chair or Director b. 8 weeks from written notification of failure of the Final PhD Oral Examination or termination of registration in a graduate program	3. SGS Appeal a. Notice of Appeal to GAAB ² 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.	8 weeks from filing of Notice of Appeal to GAAB ²

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90 days from decision of GAAB ²	4. Governing Council Appeal Notice of Appeal to GCAAC ³	N/A
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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

12.0 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.

Furthermore, University of Toronto-wide policies affecting students are posted at www.governingcouncil.utoronto.ca/Governing_Council/Policies.htm.

12.1 University Assessment and Grading Practices Policy

The University Assessment and Grading Practices Policy sets out the principles and key elements that should characterize the assessment and grading of student work in for-credit programming at the University of Toronto.

The purpose of the University Assessment and Grading Practices Policy is to ensure:

- that assessment and grading practices across the University are consistent and reflect appropriate academic standards;
- that student performance is evaluated in a manner that is fair, accurate, consistent, and objective and in compliance with these academic standards;
- that the academic standing of every student can be accurately assessed even when conducted in different divisions of the University and evaluated according to different grading scales.

This policy applies to the evaluation of student performance in for-credit programming at both the graduate and undergraduate level within all divisions/Faculties of the University.

For graduate programs and students, any reference to "division/Faculty" should be understood to refer to the School of Graduate Studies, and any reference to department should be understood to refer to the relevant graduate unit.

The School of Graduate Studies is the only division that may develop additional grading regulations and guidelines for graduate studies. Where undergraduate and graduate practices differ, this has been indicated explicitly in the text. Otherwise, all clauses should be understood to apply equally to students at either level of study. Divisions/Faculties may wish to develop procedures for implementing these policies according to their needs. These procedures must be consistent with this policy. In case of conflict or lack of clarity, this policy will be understood to take precedence.

The University Assessment and Grading Practices Policy comprises three parts:

Part A: Grades

Part B: Grading Practices

Part C: Designators and Other Non-Grade Symbols Approved for Use in Reporting Course Results

The full text of the University Assessment and Grading Practices Policy appears on the University of Toronto website.

12.2 Academic Continuity Policy

The University of Toronto is committed to fulfilling its core academic mission of educating students. It recognizes that events such as pandemic health emergencies, natural disasters, prolonged service interruptions, and ongoing labour disputes are potential threats to academic continuity. Good stewardship requires that the University undertake appropriate planning and preparation to promote continuity. At the same time, the University must be prepared to respond to extraordinary circumstances in which the normal academic operations of the University may be disrupted.

This policy provides a framework that will guide the University in enhancing its ability to fulfil its academic mission in the face of potential threats to academic continuity. It is intended to apply to circumstances and events that are potential threats to the continuity of the academic operations of the University and relates entirely to the principles and processes that should guide the University in this context. It applies to instances when the academic continuity of one or more programs, one or more departments or Faculties, one or more campuses, or the whole University is disrupted and changes need to be made to the normal academic operations of the University.

The full text of the Academic Continuity Policy appears on the University of Toronto website.

12.3 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.

12.4 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 Student Guide on Ethical Conduct in Research Involving Human Subjects on the SGS website.

12.5 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.

The full text of the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations appears on the University of Toronto website.

12.6 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

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those ethical principles which characterize the pursuit and transmission of knowledge within the University.

The code addresses offences, procedures, and 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 appears on the University of Toronto website.

12.7 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 ensures 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 Policy and Procedures: Sexual Harassment appears on the University of Toronto website.

12.8 Code of Student Conduct

Students have an obligation to make legal and responsible decisions concerning their conduct. The University has no general 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 appears on the University of Toronto website.

12.9 Access to Official 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 Guidelines Concerning Access to Official Student Academic Records establishes University-wide aims, objectives, criteria, and procedures that apply to the academic records of students.

The guidelines ensure 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 guidelines call for basic University-wide consistency in the kinds of information collected, recorded, filed, and made available.

The full text of the Guidelines Concerning Official Access to Student Academic Records appears on the University of Toronto website.

12.9.1 Refusal of Access to Official Student Academic Records

The School of Graduate Studies will withhold access to statements of results and transcripts of students, alumni, and former students who have outstanding debts or obligations to the University in accordance with the Policy on Academic Sanctions for Students Who Have Outstanding University Obligations. The School of Graduate Studies will not release the official diploma to such persons nor will it provide written or oral certifications of degree on their behalf.

12.10 Transcript Policy

This policy sets out the principles that underpin the University's understanding of its official academic transcript and to describe the minimum information that the transcript must include. The academic transcript is the primary, official, consolidated record of a student's academic performance and achievement.

The transcript:

- should reflect academic history only.
- should be a meaningful reflection of the student's academic activity and achievement.
- must provide the reader with the information required to interpret the transcript.

University of Toronto consolidated transcripts are limited to degree-level studies.

The full text of the Transcript Policy appears on the University of Toronto website.

12.11 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.

12.11.1 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.

12.11.2 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.

12.11.3 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.

The full text of the Policy on Official Correspondence with Students appears on the University of Toronto website.

12.12 Policy on the Framework on Off-Campus Safety

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 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 text of the Policy on the Framework on Off-Campus Safety appears on the University of Toronto website.

Students are also encouraged to review the Guidelines for Safety in Field Research produced by the Office of Environmental Health and Safety.

12.13 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 Appropriate Use of Information and Communication Technology appears on the Provost's website.

12.14 Statement on Human Rights

Acknowledging its fundamental and distinctive commitment to freedom of thought, inquiry, and expression, the University of Toronto affirms its

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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.

Degree Regulations

All degree students are accepted under the General Regulations of the School of Graduate Studies.

All degree program students are subject to both the General Regulations and Degree Regulations in this calendar. In particular, note section 8.0 of the General Regulations, Good Academic Standing and Satisfactory Academic Progress, Time Limits, Supervision, and Candidacy.

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, Degree and Diploma Programs by Graduate Unit.

13.0 Doctoral Degrees

The University of Toronto offers programs of study leading to four doctoral degrees:

1. Doctor of Philosophy (PhD)
2. Doctor of Education (EdD)
3. Doctor of Juridical Science (SJD)
4. Doctor of Musical Arts (DMA).

Degrees offered in multiple programs are listed first, followed by degrees specific to one graduate program.

13.1 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 degree design a four-year program that can be completed on a full-time basis by a student who holds a master's degree in a discipline 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.

13.1.1 Admission Requirements

13.1.1.1 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 section 5 of General Regulations, Admission Regulations.

13.1.1.2 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.

13.1.1.3 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. Details are found in each program entry; see Graduate Programs, Degree and Diploma Programs by Graduate Unit. 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.

13.1.2 Transfers

13.1.2.1 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. Courses may be excluded in the transfer. The total number of courses required for the PhD is the sum

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of the normal master's and PhD course requirements unless otherwise specified by the graduate unit.

13.1.2.2 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.

13.1.3 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 degree fee is based on one academic year, that is, three consecutive sessions. All PhD students are subject to rules and regulations outlined in the General Regulations, including section 8.0 on 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 Flexible-Time PhD Program Option, below.

13.1.3.1 Four-Year PhD Program

Most PhD students are admitted to a four-year PhD program based on the completion of an appropriate master's degree as detailed in the admission requirements section above and the General Regulations section. 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. All requirements for the degree must be completed within six years from first enrolment.

13.1.3.2 Five-Year PhD Program (Direct-Entry)

Graduate units may offer a five-year PhD program, approved through University of Toronto governance. Qualified students may be admitted into a five-year PhD program (direct-entry) based on the completion of an appropriate bachelor's degree as detailed in the admission requirements section above and in the General Regulations. See the above section 13.1.1.2 Direct-Entry Admission Requirements.

Students in a direct-entry PhD program will register full-time. Five-year PhD program requirements will include:

- The program requirements for the four-year PhD program;

- A substantial portion of the requirements for the master's degree;
- Additional requirements may be required by the graduate unit;
- Achieving acceptable minimum grades or averages for first-year courses;
- Students must be in Good Academic Standing at the end of Year 1.

Other than the requirements stated here, the five-year PhD program differs from the four-year PhD program requirements only in the additional first year of the program and related effects to timing of other PhD program components.

13.1.3.3 Flexible-Time PhD Program Option

Graduate units may offer a flexible-time PhD program option, approved through 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 13.1.1.3 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 program length for students in the option, which normally will be five or six years.

The time limit, between six and 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.

13.1.3.4 Approval

The graduate unit must approve a student's program of advanced study and research.

13.1.3.5 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 in Year 2. Graduate units may, at their discretion, require an earlier date.

13.1.3.6 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 recorded in the official student file.

13.1.3.7 Achieving Candidacy: Requirements and Time Limit

See General Regulations, section 8.0 on Good Academic Standing for detailed requirements.

13.1.3.8 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, which is a piece of scholarly writing, 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, which demonstrates the candidate's 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 Doctoral Final Oral Examinations.

See also General Regulations sections 9.2 Doctoral Supervision and 9.4 Submission of Theses.

13.1.3.9 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 General Regulations section 9.3 Doctoral Final Oral Examination for detailed requirements and deadlines.

13.1.3.10 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 General Regulations section 7.1.11.2 Extension of Time for Completion of Degree Requirements, Doctoral Students.

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.

13.2. 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 section 8.0 on Good Academic 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 Degree and Diploma Programs by Graduate Unit section.

All students must defend a thesis at a Final Oral Examination organized by the graduate unit with the cooperation of SGS. See General Regulations section 9.3 Doctoral Final Oral Examination 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 7.1.11 Extension of Time for Completion of Degree Requirements.

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.

Degree Regulations

13.2.1 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:

- Applied Psychology and Human Development
- Social Justice Education
- Leadership, Higher and Adult Education

13.2.2 Program Requirements

For specific program and registration requirements, see the Degree and Diploma Programs by Graduate Unit 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 an 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 the specific graduate unit entry for details.
5. A thesis embodying the results of original investigation conducted by the student under the direction of an Ontario Institute for Studies in Education (OISE) thesis committee.
6. Students undergo an SGS Final Oral Examination on the content and implications of the thesis to determine the adequacy of both the thesis and its defence by the student.
7. All requirements for the EdD must be completed within six years of first enrolment as an EdD student.

13.3 Doctor of Juridical Science (SJD)

This degree is offered in the Faculty of Law. Admission and program requirements for the degree program are outlined in the *Law* entry in the Degree and Diploma Programs by Graduate Unit section. All SJD students are subject to rules and regulations outlined in the General Regulations, including section 8.0 on Good Academic Standing requirements, in addition to the degree requirements specified in the Faculty of Law entry.

All doctoral students must defend a thesis at a Final Oral Examination organized by the graduate unit with the cooperation of SGS. See General Regulations section 9.3 Doctoral Final Oral Examination for detailed requirements and deadlines.

13.4 Doctor of Musical Arts (DMA)

This degree is offered in the Faculty of Music. Admission and program requirements for the degree program are outlined in the *Music* entry in the Degree and Diploma Programs by Graduate Unit section. All DMA students are subject to rules and regulations outlined in the General Regulations, including section 8.0 on Good Academic Standing requirements, in addition to the degree requirements specified in the Faculty of Music entry.

All doctoral students must defend a thesis at a Final Oral Examination organized by the graduate unit with the cooperation of SGS. See General Regulations section 9.3 Doctoral Final Oral Examination for detailed requirements and deadlines.

14.0 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, including section 8.0 on Good Academic 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.

14.1 Degrees in Multiple Graduate Programs

14.1.1 Master of Arts (MA)

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

14.1.1.1 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.

14.1.1.2 Program Requirements

1. Under the direction of a graduate unit, a student must pursue a program of advanced study approved by the graduate unit.

2. All requirements for the MA 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.

14.1.2 Master of Science (MSc)

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

14.1.2.1 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.

14.1.2.2 Program Requirements

1. Under the direction of a graduate unit, a student must pursue a program of advanced study approved by the graduate unit.
2. All requirements for the MSc 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.

14.1.3 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.

14.1.3.1 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
- Earth Sciences (formerly Geology)
- Materials Science and Engineering
- Mechanical and Industrial Engineering

14.1.3.2 Program Requirements

1. Under the direction of a graduate unit, a student 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 MASc 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.

14.1.4 Master of Education (MEd)

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

14.1.4.1 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.
4. A student may be enrolled in one of the following graduate units:
 - Applied Psychology and Human Development
 - Curriculum, Teaching and Learning
 - Social Justice Education
 - Leadership, Higher and Adult Education

14.1.4.2 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. Not all options are available in all graduate units.

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.

Degree Regulations

3. All requirements for the MEd 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.

14.1.5 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.

14.1.5.1 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

14.1.5.2 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 MEng 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.

14.1.6 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

14.2 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 Degree and Diploma Programs by Graduate Unit section of this calendar unless otherwise noted. All master's students are subject to rules and regulations outlined in the General Regulations, including section 8.0 on Good Academic Standing requirements, in addition to the degree requirements specified in the relevant graduate unit entry.

14.2.1 Global Professional Master of Laws (GPLLM)

See Law entry.

14.2.2 Master of Architecture (MArch)

See Architecture, Landscape, and Design entry.

14.2.3 Master of Biotechnology (MBiotech)

See Management and Innovation entry.

14.2.4 Master of Business Administration (MBA)

Admission and program requirements for the following degree programs are outlined in the *Management* entry.

- Master of Business Administration in Management
- Executive Master of Business Administration in Management
- Global Executive Master of Business Administration in Management

14.2.5 Master of Engineering in Cities Engineering and Management (MEngCEM)

See Civil Engineering entry.

14.2.6 Master of Engineering in Design and Manufacturing (MEngDM)

See Design and Manufacturing entry.

14.2.7 Master of Environmental Science (MEnvSc)

See Physical and Environmental Sciences entry.

14.2.8 Master of Finance (MF)

See Management entry.

14.2.9 Master of Financial Economics (MFE)

See Financial Economics entry.

14.2.10 Master of Forest Conservation (MFC)

See Forestry entry.

14.2.11 Master of Global Affairs (MGA)

See Global Affairs entry.

14.2.12 Master of Health Informatics (MHI)

See *Health Policy, Management and Evaluation* entry.

14.2.13 Master of Industrial Relations and Human Resources (MIRHR)

See *Industrial Relations and Human Resources* entry.

14.2.14 Master of Information (MI)

See *Information* entry.

14.2.15 Master of Landscape Architecture (MLA)

See *Architecture, Landscape, and Design* entry.

14.2.16 Master of Laws (LLM)

See *Law* entry.

14.2.17 Master of Management and Professional Accounting (MMPA)

See *Management and Innovation* entry.

14.2.18 Master of Management of Innovation (MMI)

See *Management and Innovation* entry.

14.2.19 Master of Mathematical Finance (MMF)

See *Mathematical Finance* entry.

14.2.20 Master of Museum Studies (MMSt)

See *Information* entry.

14.2.21 Master of Music (MMus)

See *Music* entry.

14.2.22 Master of Nursing (MN)

See *Nursing Science* entry.

14.2.23 Master of Professional Kinesiology (MPK)

See *Exercise Sciences* entry.

14.2.24 Master of Public Health (MPH)

See *Public Health Sciences* entry.

14.2.25 Master of Public Policy (MPP)

See *Public Policy and Governance* entry.

14.2.26 Master of Science in Applied Computing (MScAC)

See *Computer Science* entry.

14.2.27 Master of Science in Biomedical Communications (MScBMC)

See *Medical Science* entry.

14.2.28 Master of Science in Community Health (MScCH)

See *Public Health Sciences* entry.

14.2.29 Master of Science in Forestry (MScF)

See *Forestry* entry.

14.2.30 Master of Science in Occupational Therapy (MScOT)

See *Occupational Science and Occupational Therapy* entry.

14.2.31 Master of Science in Physical Therapy (MScPT)

See *Physical Therapy* entry.

14.2.32 Master of Science in Planning (MScPI)

See *Geography and Planning* entry.

14.2.33 Master of Science in Sustainability Management (MScSM)

See *Management and Innovation* entry.

14.2.34 Master of Social Work (MSW)

See *Social Work* entry.

14.2.35 Master of Studies in Law (MSL)

See *Law* entry.

14.2.36 Master of Teaching (MT)

See *Curriculum, Teaching and Learning* entry.

14.2.37 Master of Urban Design (MUD)

See *Architecture, Landscape, and Design* entry.

14.2.38 Master of Urban Design Studies (MUDS)

See *Geography and Planning* entry.

14.2.39 Master of Visual Studies (MVS)

See *Architecture, Landscape, and Design* entry.

Fees

Schedule of Fees

The annual Schedule of Fees, updated each year in June, is available on the Student Accounts website, www.fees.utoronto.ca.

Fees and Registration

Students are informed of fees payable online through Student Web Services (www.rosi.utoronto.ca).

University of Toronto students normally pay tuition fees at a branch of a financial institution in Canada. Students wishing to make a fees payment from outside of Canada may choose one of the fee payment options found on the Student Accounts website (www.fees.utoronto.ca). 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 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 defined program length (see General Regulations section 6.3 Program Length). This period establishes the minimum degree fee that must be paid before graduation.

Minimum Degree Fee

Master's Programs

The minimum degree fee is the fee associated with the program length for each graduate master's program and represents the minimum amount of tuition that every student, regardless of registration option or status, must pay upon completion of the program prior to graduation. Full-time program length is associated with the minimum degree fee that is based on the Fall session as the start of the program, even if some students commence the program in the Winter or Summer session.

Balance of Degree Fee

Master's students who finish the degree program requirements in less time than the defined program length, regardless of registration option, will be subject to a balance of degree fee. The balance of degree fee is the minimum degree fee minus tuition fees already paid by the student. The balance of degree fee is assessed just prior to graduation. The payment due date for the balance of degree fee is three months from the date that the fee was recorded in ROSI. If the fee is unpaid, students are charged the monthly service fee of 1.5% compounded (19.56% per annum). For international students who change to domestic status during their study period, the minimum degree fee will be assessed as follows:

- if the legal status change occurred within the program length, the minimum degree fee will be based on the domestic tuition fee;
- if the legal status change occurred after the program length, the minimum degree fee will be based on the international tuition fee.

PhD and Professional Doctoral Programs

The minimum degree fee for PhD and professional doctoral programs is the fee associated with one year (three sessions) of full-time studies and represents the minimum amount of tuition that every PhD or professional doctoral student, regardless of registration status or option, must pay upon completion of the program prior to graduation.

All students are subject to tuition and fees for each session and year of registration, including sessions following the defined program length, until the program is completed.

Degree or Special (Non-degree) Students

The SGS-approved transfer of graduate academic credit as a degree or special (non-degree) student does not alter or reduce the required minimum degree fee.

Full-Time Student Fee

The full-time student fee is the fee charged to a full-time student. See also: *Minimum Degree Fee* above; *Fees for Final-Year Doctoral Students* below; 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 7.1.15 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 until the completion of their program. See also *Minimum Degree Fee* above.

Flexible-Time PhD Degree Students

Students undertaking a flexible-time PhD program are required to pay full-time academic and incidental fees during 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 also: *Minimum Degree Fee* above; and General Regulations section 7.1.11 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, visit 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. For more information, please consult the Student Accounts website at www.fees.utoronto.ca.

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* below; *Fees for Students on Extension* below; and *Minimum Degree Fee* above.

Incidental Fees

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

Minimum Required Payment

NEW for 2015 Fall and 2016 Winter sessions:
Students have the option to make payments on a sessional basis.

The Fall-Winter minimum required payment consists of any arrears plus Fall session tuition fees.

For students registering in the Winter session only, the minimum required payment consists of arrears plus Winter session tuition fees.

For students registering in the Summer session only, and for students starting in the Summer session, the minimum required payment consists of arrears plus 50% of Summer session tuition fees.

Fees and Financial Support

For details regarding fee payment and service charge billing deadlines, students should visit University of Toronto Student Accounts.

Students should check the Student Web Services for account balances and details to avoid service charges.

Service Charges

If not paid in full, any outstanding account balance, regardless of the source of payment, is subject to a monthly service charge of 1.5% compounded (19.56% per annum). This is the case even if students have registered without payment on the basis of an Ontario Student Assistance Program (OSAP) or other provincial government loan, a US government loan, or University funding package.

For details regarding fee payment and service charge billing deadlines, students should visit University of Toronto Student Accounts.

Students should check the Student Web Services for account balances and details to avoid service charges.

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.

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 22, 2016, are required to register for the Fall session and pay the appropriate fees.

See also *Minimum Degree Fee* above.

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. Incidental and ancillary fees will be charged per session and are not pro-rated monthly.

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. Incidental and ancillary fees will be charged per session and are not pro-rated monthly.

See also *Minimum Degree Fee* above.

Fees for Students on Extension

All full-time graduate 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 and ancillary fees during each year of extension. Part-time students will pay the relevant part-time, incidental, and ancillary 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 the University Health Insurance Plan (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.

See also General Regulations section 7.1.10 Failure to Register.

Outstanding Fees and Charges

See General Regulations section 12.5 Policy on Academic Sanctions for Students Who Have Outstanding Obligations to the University.

Receipts for Income Tax

Tuition Fee Certificates are available online at Student Web Services (www.rosi.utoronto.ca).

Transcripts

A \$12 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 online from Student Web Services (www.rosi.utoronto.ca) or at the University of Toronto Transcript Centre, 100 St. George Street, Toronto, Ontario M5S 3G3.

Financial Support

Graduate Funding

The University of Toronto gives high priority to 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. Students in professional graduate programs typically self-fund their education expenses through a variety of programs including student loans, student line of credit, and employment income. Students may also be eligible for a limited number of graduate awards available through their graduate units and various external agencies. For more information about funding available from specific programs, visit the Financing Your Graduate Education section of the SGS website.

Although financial support cannot be guaranteed for all graduate students in all programs, students are encouraged to contact their graduate unit or the SGS Graduate Awards Office about financial assistance.

Internal Awards

SGS offers a number of internal awards to meritorious graduate students. During the admissions process, students may automatically be considered and nominated by their home graduate unit for some awards while other awards require an application. For more information on internal awards, visit the Internal Awards section of the SGS website.

External and Government-Funded Awards

SGS administers many awards from sources external to the University of Toronto (e.g., federal, provincial, external agencies). Some competitions require that the student's application be submitted to the graduate unit or to SGS for consideration, while other applications must be sent directly to the awarding institution.

Current award opportunities with detailed information for applicants are described on both the External Awards and Government-Funded Awards sections of the SGS website.

Awards for International Students

In addition to any internal departmental funding that may be available to international students, there are a number of external funding sources listed on the SGS website. International students are encouraged to investigate and apply for all possible funding opportunities provided by their home country. For more information on these awards and other funding opportunities, visit the International Student Awards section of the SGS website.

Fees and Financial Support

Government Student Assistance Program and Financial Aid

The federal and provincial governments provide financial support to qualified students who are Canadian citizens or permanent residents. The loan amount depends on your calculated financial need. Ontario residents may apply online at <https://osap.gov.on.ca>. Visit the Enrolment Services website for information regarding provincial loans. Student who are eligible for government loans may also qualify for the University of Toronto Advance Planning for Students (UTAPS) grant.

Teaching and Research Assistantships

Some graduate units hire teaching and/or research assistants.

Teaching assistants may spend up to 10 hours per week conducting tutorials, grading undergraduate essays and exams, and acting as a resource for undergraduate students.

Research assistants normally work with a faculty member, assisting with research projects.

For more information, write to the chair of your graduate unit, giving full particulars of your academic training and experience.

SGS Financial Aid and Counselling Programs

Financial counselling is available through SGS to assist students with managing educational expenses, budgeting, and planning. The financial counsellor can provide information and direction on various financial aid programs such as student loans, grants, and other resources available. Graduate students facing sudden and unanticipated financial need may be eligible for SGS emergency financial assistance programs. Financial counselling is confidential, free of charge, and available in person, by email, or phone. Visit the Financial Aid and Counselling section of the SGS website.

Emergency Grant Program

The Emergency Grant Program assists currently registered, full-time graduate students beyond their first year of study 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.

Emergency Loan Program

The Emergency Loan Program alleviates temporary cash flow problems for registered graduate students who are expecting to receive a payment in the near

future. The average loan is approximately \$1,000 to \$1,500, but may be approved for a larger amount. Loans are interest free until the mutually agreed upon repayment date.

Accessibility Grant Program

The Accessibility Grant Program assists currently registered, full-time graduate students with accommodations necessary to meet unexpected needs arising from the particular demands of their graduate program. Though students are expected to plan for long-term assistance, the grant can assist with short-term essential educational expenses that are not normally covered by the student, the graduate unit, provincial or federal agencies. Students must apply for this grant through Accessibility Services.

Contact

Graduate Awards Office
School of Graduate Studies
University of Toronto
Room 202, 63 St. George Street
Toronto, Ontario M5S 2Z9
Canada

Telephone: 416-946-0808

Fax: 416-971-2864

Email: graduateawards@sgs.utoronto.ca

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. Combined degree programs
3. Collaborative programs

SGS comprises over 80 graduate units, 35 combined degree programs, and 40 collaborative (interdisciplinary) programs.

Within each program type, entries are listed alphabetically with a descriptive overview, contact information, a list of degree programs offered, together with admission and program requirements and courses.

The degree and diploma program entries conclude 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

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

Aerospace Studies

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Aerospace Science and Engineering

MASc

MEng

PhD

Emphases:

Sustainable Aviation

Sustainable Energy

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. An optional emphasis in Sustainable Aviation is also offered. Faculty research areas include advanced aerospace structures, aircraft flight systems and control, aerospace mechatronics, autonomous space robotics, combustion and emissions in aviation, combustion and propulsion, computational aerodynamics, computational fluid dynamics and propulsion, computational modelling, and design optimization under uncertainty, dynamic systems, experimental engines, experimental fluid dynamics, flow control and experimental turbulence, fusion energy, nanosatellite and microsatellite missions, space robotics, space and terrestrial autonomous robotic systems, spacecraft dynamics and control and microsatellites, and vehicle simulation. Details of entrance regulations and courses of study are given in this calendar 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 the General Regulations of the School of Graduate Studies.

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, extended full-time, or part-time basis.
 - Full-time option: students normally complete the requirements in three sessions (one year).
 - Extended full-time option: students are expected to complete the requirements in six sessions (two years) and are limited to six half courses per year and three half courses per session.
 - Part-time option: students are limited to four half courses per year and two half courses per session. Students normally complete the requirements in nine sessions (three years).
- Once students are registered, transfer between the full-time, extended full-time, or part-time option is not permitted.
- Students in the MEng program have the option of completing an emphasis in Sustainable Aviation or Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S);

9 sessions part-time

Time Limit

3 years full-time and extended full-time;

6 years part-time

Master of Applied Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy UTIAS's additional admission requirements stated below.
- 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 full-course equivalents (FCEs), of which 0.5 FCE 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.

Degree and Diploma Programs by Graduate Unit

- 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 20 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."
- Students in the MASc program have the option of completing an emphasis in Sustainable Aviation or Sustainable Energy as part of their degree program. Please see details below.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy UTIAS's additional admission requirements stated below.
- 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 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.
- A flexible-time PhD option may be available to practising professionals, upon approval by the graduate unit. Full-time registration is required for the first four years of study, and part-time registration is expected for the remaining period of study within the normal length.
- 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 full-course equivalents (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:
 - The first DEC meeting is held within six months of PhD program start (or date of transfer for transfer students), within 12 months for flexible-time PhD students; the aim is to identify the topic and scope of the thesis.
 - The second DEC meeting (approximately 1.5 years after PhD start, within 24 months for flexible-time PhD students) is the Qualifying Examination, which determines whether the student should continue in the program or whether his or her candidacy should be terminated.
 - 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.
- Students in the PhD program have the option of completing an emphasis in Sustainable Aviation or Sustainable Energy as part of their degree program. Please see details below.

Program Length

4 years full-time; 5 years direct-entry; 6 years flexible-time

Time Limit

6 years full-time; 7 years direct-entry; 7 years transfer-from-master's; 8 years flexible-time

Emphasis: Sustainable Aviation

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least two half courses (1.0 full-course equivalent [FCE]) from: AER 1303H, AER 1304H, AER 1306H, AER 1308H, AER 1310H, AER 1316H, AER 1318H, AER 1319H, AER 1403H, AER 501H, AER 510H, CIV 1307H, PHY 1498H, PHY 2504H, PHY 2505H, CHE 1123H, JCC 1313H.
- AER 1315H (0.5 FCE).
- A thesis in an area of relevance to sustainable aviation with approval of the Scientific Committee.

Master of Engineering (MEng) students must successfully complete:

- At least five half courses (2.5 FCEs) from: AER 1303H, AER 1304H, AER 1306H, AER 1308H, AER 1310H, AER 1316H, AER 1318H, AER 1319H, AER 1403H, AER 501H, AER 510H, CIV 1307H, PHY 1498H, PHY 2504H, PHY 2505H, CHE 1123H, JCC 1313H.
- AER 1315H (0.5 FCE).

Emphasis: Sustainable Energy

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H, CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H, CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H, ECE 533H, ECE 1055H, ECE 1057H, ECE 1085H, ECE 1086H, ECE 1094H, MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,

MSE 558H, MSE 1022H, MSE 1028H

Course List

This list represents course offerings at the time of publication. Course descriptions are available on the UTIAS website. Courses marked (PR) have prerequisites.

Aircraft Flight Systems

AER 0503H	Aeroelasticity
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

Aerodynamics, Fluid Dynamics, and Propulsion

AER 0510H	Aerospace Propulsion
AER 1301H	Kinetic Theory of Gases
AER 1303H	Advanced Fluid Mechanics (PR)
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
AER 1322H	Modern Aircraft Propulsion (prerequisite: AER 0510 or equivalent; undergraduate-level training in compressible flow)

Structures and Multidisciplinary Optimization

AER 0501H	Advanced Mechanics of Structures
AER 1403H	Advanced Aerospace Structures (PR)
AER 1416H	Numerical Methods for Uncertainty Quantification

Degree and Diploma Programs by Graduate Unit

Sustainable Aviation

AER 1315H	Sustainable Aviation
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Space Systems Engineering

AER 0506H	Spacecraft Dynamics and Control I
AER 0521H	Mobile Robotics and Perception
AER 0525H	Robotics
AER 1503H	Spacecraft Dynamics and Control II
AER 1512H	Multibody Dynamics
AER 1513H	State Estimation for Aerospace Vehicles
AER 1514H	Mobile Robotics
AER 1515H	Intelligent Robotics
AER 1520H	Microsatellite Design I
AER 1521H	Microsatellite Design II

Engineering Physics

AER 0507H	Introduction to Fusion Energy
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 MSc students only)
AER 1810H	MEng Project (for MEng students only)
JDE 1000H	Ethics in Research (Students registered in the MSc 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 - BSc, PhD
Damaren, Christopher - BSc, MSc, PhD
D'Eleuterio, Gabriele - BSc, MSc, PhD
Emami, M. Reza - BSc, MSc, PhD
Grant, Peter - BSc, MSc, PhD
Groth, Clinton - BSc, MSc, PhD
Gulder, Omer - BSc, MSc, PhD
Haasz, Anthony - BSc, MSc, PhD

Kelly, Jonathan - BSc, MS, MSc, PhD
Lavoie, Philippe - BSE, MSc, PhD
Liu, Hugh - BSc, MSc, PhD (**Interim Associate Director; Graduate Coordinator**)
Martins, Joaquim - MEng, MSINAE, PhD
Nair, Prasanth - BTech, MTech, PhD
Schoellig, Angela - DiplIng, MSc, PhD, PhD
Zingg, David - BSc, MSc, PhD (**Director**)

Members Emeriti

DeLaurier, James - BS, MS, PhD, FCASI
Stangeby, Peter - BSc, MSc, PhD

Associate Members

Carroll, Kieran - BSc, MSc, PhD
Davis, James - BSc, MSc, PhD

Anthropology

Faculty Affiliation

Arts and Science

Degree Programs

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. **Environmental Studies**
 - Anthropology, MA, MSc, PhD
7. **Ethnic and Pluralism Studies**
 - Anthropology, MA, PhD
8. **Global Health**
 - Anthropology, PhD
9. **Jewish Studies**
 - Anthropology, MA, PhD
10. **Sexual Diversity Studies**
 - Anthropology, MA, MSc, PhD
11. **South Asian Studies**
 - Anthropology, MA, MSc, PhD
12. **Women and Gender Studies**
 - Anthropology, MA, MSc, PhD
13. **Women's Health**
 - Anthropology, MA, MSc, PhD

Overview

The Department of Anthropology offers research training and courses of instruction in five fields:

- Archaeology
- Evolutionary Anthropology
- Linguistic and Semiotic Anthropology
- Medical Anthropology
- Sociocultural Anthropology

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

Degree and Diploma Programs by Graduate Unit

The **Master of Science** degree program is normally taken in three fields: Archaeology, Evolutionary 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

Fax: (416) 978-3217

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. Applicants must also satisfy the Department of Anthropology's additional admission requirements stated below.
- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Degree and Diploma Programs by Graduate Unit

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Anthropology's additional admission requirements stated below.
- 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, evolutionary 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

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. Applicants must also satisfy the Department of Anthropology's additional admission requirements stated below.
- 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 the 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 second session of the second year (e.g., May 1 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 second session of the third year (e.g., May 1 for students who start in September).

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 the current year's offerings.

General

ANT 1000H	Introductory Masters Workshop (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 ⁰	MA Research Paper
ANT 2500Y ⁰	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)

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.

Archaeology

JPA 1040Y	Advanced Physics and Archaeology
ANT 4010H	Archaeology in Contemporary Society
ANT 4020H	Archaeology Theory
ANT 4022H	Culture Resource Management

Degree and Diploma Programs by Graduate Unit

ANT 4025H	Archaeology of Eastern North America
ANT 4026H	Arctic Archaeology
ANT 4028H	Violence and Civilization
ANT 4029H	Lithic Technology
ANT 4030H	Artifacts
ANT 4031H	Value
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 I
ANT 4065H	Specific Problems II
ANT 4066H	Household Archaeology
ANT 4068H	Archaeology of Technology

Evolutionary 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 3035H	Primate Sexual Selection
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

Degree and Diploma Programs by Graduate Unit

ANT 3045H	Advanced Topics in Non-Human Primate Evolution
ANT 3046H	Paleoecology in Primate and Human Evolution
ANT 3047H	Evolutionary Anthropology Theory
ANT 3438H	Skeletal Trauma and Violence: Theory and Practice
ANT 3439H	Advanced Seminar in Forensic Anthropology
ANT 3440H	Molecular Anthropology: Theory and Practice

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

Linguistic and Semiotic 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 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 5148H	Language, Ideology and Political Economy
ANT 5162H	Ethnography of Communication
ANT 6013H	Language and Publics in the Ethnography of Speaking
JSA 5147H	Language, Nationalism and Post-Nationalism

Medical Anthropology

ANT 7001H	Medical Anthropology I
ANT 7002H	Medical Anthropology II
ANT 7003H	Global Health: Anthropological Perspectives

Sociocultural Anthropology

ANT 6003H	Critical Issues in Ethnography I
ANT 6004H	Critical Issues in Ethnography II

ANT 6005H	The Politics of Distribution: Work, Welfare and Abandonment in Precarious Times
ANT 6006H	Genealogies of Anthropological Thought
ANT 6007H	Magic, Science, and Religion
ANT 6008H	Posthuman Anthropology
ANT 6010H	Anthropology of Korea: History and Dialogues with Other Disciplines within Korean Studies
ANT 6012H	Metamorphosis of Citizenship
ANT 6014H	Media and Mediation
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 6021H	Political Anthropology: State, Power, and Sovereignty
ANT 6022H	Symbolic Anthropology: Structuralism, Hermeneutics, and Poststructuralism
ANT 6025H	Anthropology and Epistemology
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	Research Design and Fieldwork Methods
ANT 6050H	Reading Course
ANT 6055H	Anthropology of Subjectivity and Personhood
ANT 6056H	Decolonizing Diversity Discourse: Critical and Comparative Accounts of Multiculturalism and Settler Colonialism
JAR 6510H	From Theory to Ethnography: Anthropological Approaches to Religion

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

Graduate Faculty

Full Members

Bamford, Sandra - BA, MA, MPA, PhD
 Banning, Edward - BA, MA, PhD (**Chair**)
 Barker, Joshua - BA, MA, PhD
 Begun, David - BA, MA, PhD (**Graduate Coordinator**)
 Boddy, Janice - BA, MA, PhD
 Chazan, Michael - BA, MA, PhD
 Cody, Francis - PhD
 Coleman, Simon - BA, PhD
 Coupland, Gary - BA, MA, PhD
 Crawford, Gary - BSc, MA, PhD
 Cunningham, Hilary - BA, MA, PhD
 Dahl, Bianca Jane - BA, MA, PhD
 Danesi, Marcel - BA, MA, PhD
 Daswani, Girish - BSc, BSc, MS, PhD
 Dave, Prakruti - BA, MA, PhD
 Friesen, T Max - BA, MA, PhD
 Gillison, Gillian - BA, PhD
 Heller, Monica - BA, MA, PhD
 Hillewaert, Sarah Marleen - BA, MA, MA, PhD
 Kalmar, Ivan - BA, MA, PhD
 Kilroy-Marac, Kathleen Patricia - MA, MPH, PhD
 Krupa, Chris - BA, MA, PhD
 Lambek, Michael - BA, MA, PhD
 Lehman, Shawn - BA, MA, PhD
 Li, Tania - BA, PhD
 Luong, Hy Van - BA, PhD
 Maxwell, Krista - BSc, MA, PhD
 McElhinny, Bonnie - BA, MA, MA, PhD, PhD
 Miller, Heather - BA, MSc, MA, PhD
 Mortensen, Lena - BA, MA, PhD
 Muehlebach, Andrea - MA, PhD
 Napolitano, Valentina - BSc, MPH, PhD
 Parra, Esteban - BA, MA, PhD
 Paz, Alejandro - BA, MPA, MA, PhD
 Pfeiffer, Susan - BA, MA, PhD
 Rogers, Tracy - BA, MA, PhD
 Sanders, Todd - BA, MA, MSc, PhD
 Satsuka, Shiho - BA, BA, MA, PhD
 Sawchuk, Lawrence - BA, MA, PhD
 Schillaci, Michael - BA, MA, PhD
 Sellen, Daniel - BA, AM, PhD
 Sidnell, Jack - BA, MA, PhD
 Silcox, Mary Teresa - BSc, PhD
 Smith, David - BA, MA, PhD
 Song, Jesook - BA, PhD
 Swenson, Edward - BA, MA, PhD
 Wardlow, Holly - BA, MA, MPH, PhD
 Xie, Liye - BA, MA, PhD

Members Emeriti

Alderson-Smith, Gavin - BA, MA, DPhil
 Burton, Frances - BSc, MA, PhD
 Chew, John - BA, MA, 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
 Sigmon, Becky - BA, MS, PhD
 Turner, David - BA, PhD
 Vanderburgh, Rosamond - BA, MA

Associate Members

Clark, Terence - BA, MA, PhD
 Cummings, Maggie Irene - BA, MA, PhD
 Dei, George JS - BA, MA, PhD
 Dewar, Genevieve - BS, MA, PhD
 Forni, Silvia - BA, MA, PhD
 Gotlib Conn, Lesley - BA, MA, PhD
 Gunz, Philipp - MA, PhD
 Harrison, Timothy - BA, MA, PhD
 Hunter, Mark - BA, MSS, PhD
 Jauregui, Beatrice - PhD
 Jennings, Justin - BA, MA, PhD
 Jin, Meng - BS, MS, PhD
 Klassen, Pamela - BA, MA, PhD
 Knappett, Carl - MA, PhD
 Magne, Martin - BSc, MA, PhD
 Maher, Lisa - BSc, PhD
 Mittermaier, Amira - MA, PhD
 Moffat, Tina - BSc, MA, PhD
 Munson, Marit - BA, MA, PhD
 O'Neill, Kevin - BA, MA, PhD
 O'Reilly, Andrea - BA, MA, PhD
 Parga, Joyce Ann - BSc, MA, PhD
 Shen, Chen - BA, PhD
 Young, Donna Jean - BA, MA, PhD

Applied Psychology and Human Development

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Child Study and Education

MA	Fields: Practice-Based Inquiry in Psychology and Educational Practice Research-Intensive Training in Psychology and Education
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Counselling and Clinical Psychology

MA	Fields: Clinical and Counselling Psychology— <i>offered by the Department of Applied Psychology and Human Development, OISE, St. George campus</i> Clinical Psychology— <i>offered by the Graduate Department of Psychological Clinical Science, University of Toronto Scarborough (UTSC)</i>
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PhD	Fields: Clinical and Counselling Psychology— <i>offered by the Department of Applied Psychology and Human Development, OISE, St. George campus</i> Clinical Psychology— <i>offered by the Graduate Department of Psychological Clinical Science, University of Toronto Scarborough (UTSC)</i>
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Counselling Psychology

MEd	Fields: Counselling and Psychotherapy Guidance and Counselling
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EdD	Field: Counselling and Psychotherapy
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Developmental Psychology and Education

MA	
MEd	
PhD	Emphasis: Early Learning (flexible-time)

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. **Aboriginal Health**
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
2. **Addiction Studies**
 - Counselling and Clinical Psychology, MA, PhD
3. **Aging, Palliative and Supportive Care Across the Life Course**
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
4. **Educational Policy**
 - Developmental Psychology and Education, MA, MEd, PhD
5. **Human Development**
 - Developmental Psychology and Education, PhD
6. **Neuroscience**
 - Developmental Psychology and Education, MA, PhD
7. **Sexual Diversity Studies**
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
8. **Women and Gender Studies**
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD

Overview

The Department of Applied Psychology and Human Development currently offers five graduate programs:

1. Child Study and Education
2. Counselling Psychology
3. Counselling and Clinical Psychology (offered with the graduate Department of Psychological Clinical Science, UTSC)
4. Developmental Psychology and Education
5. School and Clinical Child Psychology

Consult the department 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.

All programs in the department commence in September.

Note: The department strongly discourages student requests to transfer between programs.

Contact and Address

Web: www.oise.utoronto.ca/aphd/

Department of Applied Psychology and Human Development
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West, 9th Floor
Toronto, Ontario M5S 1V6
Canada

Degree Programs

Child Study and Education

The Master of Arts 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.

The philosophy of this program is based on the belief that successful teaching requires an understanding of how children's capacities, concerns, and behaviour change with age, how individual differences reflect developmental changes, and how social and physical environments influence children's development.

The program introduces students to educational and developmental theory and research relevant to educational settings, showing how this research can inform classroom practice. Students also learn how to objectively study children, using both practical assessment and formal methods of inquiry. These areas of knowledge combined with knowledge of effective teaching methods (such as an inquiry-based approach) and learning environments result in educational practices that build on children's current levels of development.

The non-thesis program requires two years of full-time study leading to a Master of Arts degree. Graduates are recommended to the Ontario College of Teachers for a **Certificate of Qualification**, which qualifies the holder to teach in the primary and junior divisions of Ontario schools.

This program offers two fields:

1. Practice-Based Inquiry (PBI) in Psychology and Educational Practice
2. Research-Intensive Training (RIT) in Psychology and Education

Field: Practice-Based Inquiry (PBI) in Psychology and Education Practice

The field is based on the use of collaborative inquiry and data-based decision-making to enhance teachers' practice and student learning and success. This field will provide a foundation in the use of a broad range of information sources to address questions of practice using an inquiry cycle.

Degree and Diploma Programs by Graduate Unit

Field: Research-Intensive Training (RIT) in Psychology and Education

The field provides concurrent training in research methods and educational practice for elementary teacher certification. It supports the development of expertise in scientific examination of educational and psychological issues and highlights the integration between science and classroom practice.

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.
- An appropriate bachelor's degree (usually a four-year 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. 9.0 full-course equivalents (FCEs), including practicum placements and an internship as follows:
 - **Year 1**—5.0 FCEs as follows:
 - APD 2200Y *Child Study: Observation, Evaluation, Reporting, and Research*
 - APD 2201H *Childhood Education Seminar and Practicum*
 - APD 2210Y *Introduction to Curriculum I: Core Areas*
 - APD 2220H *Teaching Practicum*
 - APD 2280H *Introduction to Special Education and Adaptive Instruction*
 - 1.0 elective FCE (equivalent to two half courses) chosen from among master's-level courses in the Department of Applied Psychology and Human Development and, in some cases, other departments. Elective courses that are especially recommended to CSE students are listed in the Applied Psychology and Human Development program guidelines. Students without an undergraduate course in child development must take APD 1201H *Child and Adolescent Development*, as an elective.
 - Three eight-week, half-day placements in kindergarten/early childhood, grades 1 to 3, and grades 4 to 6. A fourth placement is optional for those who would like more experience and contacts.
 - Students in the PBI field must also complete APD 1226H *Foundations in Inquiry and Data-Based Decision Making*.

Degree and Diploma Programs by Graduate Unit

- Students in the RIT field must also complete APD 1209H *Research Methods and Thesis Preparation in AP&HD*.
- Registration in Year 2 of the program is contingent upon successful completion of all Year 1 work.
- **Year 2**—4.0 FCEs as follows:
 - APD 2211H *Theory and Curriculum I: Language and Literacy*
 - APD 2212H *Theory and Curriculum II: Mathematics*
 - APD 2214H *Introduction to Curriculum II: Special Areas*
 - 3.5-month full-time internship (APD 2221Y *Advanced Teaching Practicum*) to be taken in one session
 - Students in the PBI field must also complete: APD 1227Y *Professional Practice Project*
 - Students in the RIT field must also complete: APD 2001Y⁰ *Major Research Paper*
 - During the internship session of Year 2, students are required to take APD 2202H *Childhood Education Seminar II: Advanced Teaching*.
- Students who wish to qualify for a condensed version of OISE's Special Education Part 1 Additional Qualifications (AQ) course offered in the spring following graduation must meet coursework and practicum requirements.

Program Length

5 sessions full-time (typical registration sequence: F/W/ S/F/W)

Time Limit

3 years full-time

Course List

Year 1 Required Courses

APD 2200Y	Child Study: Observation, Evaluation, Reporting, and Research
APD 2201H	Childhood Education Seminar and Practicum
APD 2210Y	Introduction to Curriculum I: Core Areas
APD 2220H	Teaching Practicum
APD 2280H	Introduction to Special Education and Adaptive Instruction
<i>Plus</i>	PBI field only: APD 1226H Foundations in Inquiry and Data-Based Decision Making or RIT field only: APD 1209H Research Methods and Thesis Preparation in AP&HD

<i>Plus</i>	Two elective half courses to be completed during the Spring/Summer intersession
<i>Plus</i>	Full-year religious education course (if interested in teaching in the Roman Catholic Separate School Board). This course does not count towards the 9.0 FCE program requirements.

Note: Students without an undergraduate course credit in child development must take APD 1201H *Child and Adolescent Development* as one of their electives.

Year 2 Required Courses

Registration in Year 2 is contingent upon successful completion of all Year 1 work.

Academic Session

APD 2211H	Theory and Curriculum I: Language and Literacy
APD 2212H	Theory and Curriculum II: Mathematics
APD 2214H	Introduction to Curriculum II: Special Areas
<i>Plus</i>	PBI field only: APD 1227Y Professional Practice Project or RIT field only: APD 2001Y ⁰ Major Research Paper

Internship Session

APD 2202H	Childhood Education Seminar II: Advanced Teaching
APD 2221Y	Advanced Teaching Practicum

In addition, students must demonstrate knowledge of the acts and regulations respecting education in Ontario (addressed in APD 2202H).

Recommended Elective Courses

Depending on their career goals, students may wish to select courses and placements to focus on particular areas:

Special Education

Students planning a career in special needs education may consider Special Education as a focused area of study. Such students are strongly encouraged to complete at least one recommended special education elective. Graduates who follow the Special Education recommendations are eligible to take a condensed Special Education Part I Additional Qualifications (AQ) course at OISE in the spring following successful completion of the program.

Early Childhood

Students interested in Kindergarten and Early Childhood Education (ECE) programs may consider Early Childhood as a focused area of study. Such students are strongly encouraged to complete one recommended Early Childhood elective course, an internship in a Kindergarten class, and a tandem seminar series and infant or toddler placement. These students may opt to apply for College of Early Childhood Educators (CECE) membership for the Registered Early Childhood Educator designation after completing the program (fee applies).

Course List

APD 1226H	Foundations in Inquiry and Data-Based Decision Making
APD 1227Y	Professional Practice Project
APD 2001Y ⁰	Major Research Paper
APD 1201H	Child and Adolescent Development
APD 1217H	Foundations of Proactive Behavioural and Cognitive-Behavioural Intervention with Children
APD 1238H	Special Topics in Human Development and Applied Psychology
APD 1241H	Outcomes of Early Education and Child Care
APD 1256H	Child Abuse: Intervention and Prevention
APD 1259H	Family Relationships with Early Childhood Services and Schools
APD 1260H	Children, Psychology, and the Law
APD 1272H	Play and Education
APD 1284H	Psychology and Education of Children and Adolescents with Behaviour Disorders
APD 1289H	Multivariate Analysis with Applications
APD 1292H	Instrument Design and Analysis
APD 1293H	Applied Research Design and Data Analysis
APD 1294H	Technology, Psychology, and Play
APD 1296H	Assessing School-Aged Language Learners
APD 2200Y	Child Study: Observation, Evaluation, Reporting, and Research
APD 2201H	Childhood Education Seminar
APD 2202H	Childhood Education Seminar II: Advanced Teaching

Degree and Diploma Programs by Graduate Unit

APD 2210Y	Introduction to Curriculum I: Core Areas
APD 2211H	Theory and Curriculum I: Language and Literacy
APD 2212H	Theory and Curriculum II: Mathematics
APD 2214H	Introduction to Curriculum II: Special Areas
APD 2220H	Teaching Practicum
APD 2221Y	Advanced Teaching Practicum
APD 2275H	Technology for Adaptive Instruction and Special Education
APD 2280H	Introduction to Special Education and Adaptive Instruction
APD 2292H	Assessment for Instruction
APD 2293H	Interpretation of Educational Research
APD 2296H	Reading and Writing Difficulties
APD 3203H	Children's Theory of Mind
APD 3238H	Special Topics in Human Development and Applied Psychology
APD 3272H	Early Learning Practice, Research, and Policy
APD 3273H	Researching Early Learning: An Overview Course of Quantitative and Qualitative Methodology
APD 3274H	Early Learning and the Thesis
APD 3297H	Biological and Psychological Foundations of Low Incidence Disorders
JDS 1249H	Social-Emotional Development and Applications
JDS 3000H	Advanced Methods in Developmental Science
JPX 1001H	Parenting: Multidisciplinary Perspectives

Individual Reading and Research Courses

APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level
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⁰ Course that may continue over a program. The course is graded when completed.

Counselling and Clinical Psychology

The Counselling and Clinical Psychology program offers studies leading to the MA and PhD degrees. It is offered

Degree and Diploma Programs by Graduate Unit

by the graduate Department of Applied Psychology and Human Development at the Ontario Institute for Studies in Education (OISE), St. George campus, and the graduate Department of Psychological Clinical Science at the University of Toronto Scarborough (UTSC).

This graduate program is intended for students seeking to pursue careers in research, teaching, and clinical practice. At the time of application, students will be required to identify a preference for a specific field as well as for a potential supervisor with whom they would work if admitted to the program.

The program has two fields:

1. Clinical and Counselling Psychology, offered primarily by OISE;
2. Clinical Psychology, offered primarily by UTSC.

Field: Clinical and Counselling Psychology

The field in Clinical and Counselling Psychology is offered primarily by the OISE Department of Applied Psychology and Human Development. This field is based on a bio-psycho-social model with an emphasis on diversity. It shares an emphasis with the other field on assessment and the treatment of psychopathology in adults and adolescents.

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. This program enables students to apply for registration with the College of Psychologists of Ontario (CPO) as a Psychological Associate. It also fulfils the requirements of students who plan to apply to the PhD program in Counselling and Clinical Psychology.

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.
- 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 second-, third-, and fourth-year levels).
- Scores on General and Subject tests of the Graduate Record Examination (GRE).
- A standing equivalent to a University of Toronto A- or better in the final year.

Program Requirements

- The MA consists of 4.0 FCEs of total coursework:
 - APD 1202H *Theories and Techniques of Counselling and Psychotherapy*
 - APD 1203Y *Practicum I: Interventions in Counselling Psychology and Psychotherapy*
 - APD 1204H *Personality Theories* or APD 1265H *Advanced Topics in Social and Personality Development*
 - APD 1208H *Individual Cognitive and Personality Assessment*
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy*
 - APD 1228H *Individual and Group Psychotherapy: Families and Couples Counselling* or APD 1261H *Group Work in Counselling and Psychotherapy* (or an equivalent course)
 - APD 1263H *Research Methods in Counselling and Clinical Psychology*
 - 500 hours of practicum
 - a master's thesis.
- **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 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);
10 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Doctor of Philosophy

The principal aim of this degree program is the development of research and theoretical knowledge in counselling and clinical psychology, assessment skills, and knowledge and training in professional issues. Students are expected to conduct advanced research and to develop professional knowledge

and skills. Graduates will be prepared to assume a variety of positions in psychological teaching, research, and practice in universities, community settings and agencies offering psychological services, and in university or college counselling centres.

The Counselling and Clinical Psychology program offers both a full-time and flexible-time PhD, and progress in the program will be reviewed annually. The pre-existing program in Counselling Psychology at OISE was re-accredited by the Canadian Psychological Association (CPA) in 2010-2011 for a five-year term. The program will be seeking re-accreditation in Clinical and Counselling Psychology in the near future.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.

Full-Time PhD

- The PhD in Counselling and Clinical Psychology (Clinical and Counselling Psychology field) 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 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 second-, 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 Clinical and Counselling Psychology 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.

Program Requirements

- The PhD program requires a minimum of 5.0 FCEs:
 - 2.5 FCEs in Counselling and Psychotherapy:
 - APD 3215H *Advanced Psychotherapy Seminar*;
 - APD 3217Y *Advanced Practicum in Clinical and Counselling Psychology* (600-hour practicum); and
 - APD 3268Y *Internship in Clinical and Counselling Psychology* (1,600-hour internship—arrangements must be made in

Degree and Diploma Programs by Graduate Unit

- consultation with the Coordinator of Internship and Counselling Services)
- 1.0 FCE in Psychology Measurement/ Assessment and Diagnosis:
 - APD 3225H *Assessment and Diagnosis of Personality and Psychopathology*; and
 - APD 3260H *Psychodiagnostic Systems*
- 1.0 FCE in Advanced Research Methods:
 - APD 1288H *Intermediate Statistics and Research Design*; and
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences*
- 0.5 FCE in History and Systems Psychology:
 - APD 3204H *Contemporary History and Systems in Human Development and Applied Psychology*
- **Comprehensive examination:** In addition to normal course requirements, students will complete two comprehensive components. First, a manuscript for publication and presentation at a peer review conference, normally in Year 1 of the program. Second, students will be examined systematically in general psychology and in professional psychology. The examination will normally be taken at the end of Year 2 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.

Program Length

5 years full-time; 6 years flexible-time

Time Limit

6 years full-time, 8 years flexible-time

Course List

APD 1202H	Theories and Techniques of Counselling and Psychotherapy
APD 1203Y	Practicum I: Interventions in Counselling Psychology and Psychotherapy
APD 1204H	Personality Theories
APD 1208H	Individual Cognitive and Personality Assessment
APD 1209H	Research Methods and Thesis Preparation in Human Development and Applied Psychology

Degree and Diploma Programs by Graduate Unit

APD 1219H	Ethical Issues in Professional Practice in Psychology and Psychotherapy
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1238H	Special Topics in Human Development and Applied Psychology
APD 1261H	Group Work in Counselling and Psychotherapy
APD 1263H	Research Methods in Counselling and Clinical Psychology
APD 1265H	Advanced Topics in Social and Personality Development
APD 1287H	Introduction to Applied Statistics
APD 1288H	Intermediate Statistics and Research Design
APD 3202H	A Foundation of Program Evaluation in Social Sciences
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
APD 3215H	Advanced Psychotherapy Seminar
APD 3217Y	Advanced Practicum in Clinical and Counselling Psychology
APD 3218H	Research Seminar in Counselling
APD 3225H	Assessment and Diagnosis of Personality and Psychopathology
APD 3260H	Psychodiagnostic Systems
APD 3268Y	Internship in Clinical and Counselling Psychology

Field: Clinical Psychology (UTSC)

The field in Clinical Psychology is offered primarily by the Graduate Department of Psychological Clinical Science at the University of Toronto Scarborough (UTSC).

Clinical Psychology at UTSC adheres to a **Clinical Science** model of training. Housed within the Graduate Department of Psychological Clinical Science, the primary and overriding objective of graduate training in Clinical Psychology at UTSC is to foster exceptional clinical scientists according to the highest standards of research and clinical practice.

Graduate training in Clinical Psychology at UTSC has primary research strengths in the areas of **clinical neuropsychology and neurosciences, personality and psychological assessment, and mindfulness- and acceptance-based psychotherapies**. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance the assessment and treatment of mental disorders, especially depressive and

bipolar disorders, anxiety disorders, schizophrenia-spectrum disorders, borderline personality disorder, and neurocognitive disorders, such as dementia due to Alzheimer's or Parkinson's disease.

Contact and Address

Web: www.utoronto.ca/psych/graduate-training-clinical-psychology
Email: clinical-psych@utoronto.ca
Telephone: (416) 208-4867

Graduate Department of Psychological Clinical Science
University of Toronto Scarborough (UTSC)
Science Wing, Room SW427D
1265 Military Trail
Toronto, Ontario M1C 1A4
Canada

Master of Arts

The full-time, two-year MA program is designed for applicants interested in working as researchers or practitioners in a variety of psychological and educational settings. This program enables students to apply for registration with the College of Psychologists of Ontario (CPO) as a Psychological Associate. It also meets the needs of students who plan to apply to the PhD program in Counselling and Clinical Psychology.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Psychological Clinical Science's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with at least an A- (or first-class standing) in the final two years of undergraduate study, and at least 4.0 to 6.0 full-course equivalents (FCEs) in psychology including statistics and some laboratory research experience. Students who are admitted to the program without 6.0 FCEs in required undergraduate coursework may be required to complete additional courses in the master's program. Applicants with a strong background in mathematics, computer science, statistics, biological science, or neuroscience are encouraged to apply.
- Competitive scores on General and Subject (Psychology) tests of the Graduate Record Examination (GRE).
- Two academic letters of reference.
- A personal statement.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must demonstrate proficiency in English. Applicants must complete the Test of English as a Foreign Language (TOEFL), or its equivalent according to SGS regulations, prior to submitting the application.

Program Requirements

- The Clinical Psychology field for the MA in Counselling and Clinical Psychology consists of 5.0 FCEs of total coursework, which includes an ethics course, practicum-based courses, and a clinical practicum.
 - Year 1:**
Fall courses: CPS 1601H, CPS 1701H, CPS 1901H
Winter courses: CPS 1702H, CPS 1801H
 - Year 2:**
Fall courses: CPS 1102H
Fall and Winter courses: CPS 1802H, CPS 1803H
Winter course: CPS 1101H
 - Students must complete a clinical practicum at a pre-approved placement site in the final summer of the program (CPS 2999H)
- Research thesis to be completed and orally defended in Year 2 of the program.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

The PhD program is designed for applicants interested in a career as a clinical psychologist based on a **Clinical Science** model of training. Graduate training in Clinical Psychology at UTSC prepares graduates primarily for research careers as psychological clinical scientists in university and academic medical settings. The PhD program has research strengths in **clinical neuropsychology and neurosciences, personality and psychological assessment, and mindfulness- and acceptance-based psychotherapies**. It is distinguished by its innovative cross-disciplinary approach that emphasizes scientific innovation through novel research collaborations that push traditional boundaries in clinical psychology. Importantly, the program meets the needs of students who plan to engage in research, teaching, and/or evidence-based clinical practice. This program is intended to meet the registration requirements of the College of Psychologists of Ontario (CPO) at the doctoral level.

The Counselling and Clinical Psychology program (Clinical Psychology field) is offered on a full-time basis, and progress in the program will be reviewed annually.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.

Degree and Diploma Programs by Graduate Unit

- A master's degree with specialization in Clinical Psychology (or its equivalent) from a recognized university, with a minimum A- average and excellent research performance.
- Two academic letters of reference.
- A personal statement.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must demonstrate proficiency in English. Applicants must complete the Test of English as a Foreign Language (TOEFL), or its equivalent according to SGS regulations, prior to submitting the application.

Program Requirements

The PhD program requires 6.0 full-course equivalents (FCEs) including three clinical placements, plus a thesis proposal, thesis, and thesis defence:

- 6.0 FCEs in clinical coursework, normally completed by the end of Year 2 (CPS 1103H [unless previously completed; students who have completed CPS 1103H will not have to replace this required course with an additional 0.5 FCE], CPS 1201H, CPS 1301H, CPS 1401H, CPS 1501H, CPS 1809H, CPS 3801H, CPS 3901H), and including:
 - two separate part-time clinical placements during Years 1 and 2 (CPS 3999H, CPS 4999H)
 - clinical internship at a Canadian Psychological Association- or American Psychological Association-approved clinical setting during Year 5 (CPS 5999Y).
- Thesis proposal, approved during Year 3 of the program.
- Completed thesis.
- Successful defence of the thesis at the Final Oral Examination.

Program Length

5 years

Time Limit

6 years

Course List

CPS 1101H	Clinical Research Design
CPS 1102H	Statistical Techniques I
CPS 1103H	Statistical Techniques II
CPS 1201H	Neurobiological Bases of Behaviour
CPS 1301H	Cognitive-Affective Bases of Behaviour
CPS 1401H	Social and Interpersonal Bases of Behaviour
CPS 1501H	Personality
CPS 1601H	Psychopathology

Degree and Diploma Programs by Graduate Unit

CPS 1701H	Psychological Assessment I
CPS 1702H	Psychological Assessment II
CPS 1801H	Psychotherapy
CPS 1802H	Applied Interventions in Clinical Psychology
CPS 1803H	Practicum in Psychological Interventions
CPS 1809H	Clinical Psychopharmacology
CPS 1901H	Ethics
CPS 2999H	Summer Practicum
CPS 3801H	Multi-Person Therapies
CPS 3901H	The History and Practice of Clinical Psychology
CPS 3999H	Clinical Placement I
CPS 4999H	Clinical Placement II
CPS 5999Y	Internship

Counselling Psychology

Field: Counselling and Psychotherapy

Master of Education

This MEd degree program provides individuals with the opportunity to learn and develop counselling skills appropriate for counselling individuals across a variety of work settings. Students are encouraged to tailor their courses and practicum learning experiences to meet their particular learning goals. Examples of the types of goals for which suitable programs of study could be developed include counselling and psychotherapy with adults, college and university students, or older adults: career counselling; multicultural counselling; and counselling and psychotherapy in community mental health and family service settings. The program of study provides students with the basic preparation for certification as a Certified Canadian Counsellor (CCC) with the Canadian Counselling and Psychotherapy Association (CCPA).

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the additional admission requirements of the Department of Applied Psychology and Human Development stated below.
- 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 (Counselling and Psychotherapy field) requires 5.0 full-course equivalents (FCEs) as follows:
 - APD 1202H *Theories and Techniques of Counselling and Psychotherapy*
 - APD 1203Y *Practicum I: Interventions in Counselling Psychology and Psychotherapy*
 - APD 1214H *Critical Multicultural Practice: Diversity Issues in Counselling and Psychotherapy* (prerequisite: APD 1202H and co-requisite: APD 1203Y)
 - APD 1219H *Ethical Issues in Professional Practice and Psychotherapy*
 - APD 1261H *Group Work in Counselling and Psychotherapy*
 - APD 1266H *Career Counselling and Development: Transition from School to Work* or APD 1268H *Career Counselling and Development: Transitions in Adulthood*
 - 1.5 FCEs in electives.
- A comprehensive examination.
- A practicum. Arrangements regarding a practicum placement must be made in consultation with the Coordinator of Internship and Counselling Services.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W);

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Applicants must also satisfy the additional admission requirements of the Department of Applied Psychology and Human Development stated below.

- Applicants must have the following to be admitted to the EdD program:
 - A **bachelor's degree**: an appropriate bachelor's degree of any background or discipline from a recognized university, with high academic standing.
 - 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 question or problem, to design and conduct a research 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 4.5 full-course equivalents (FCEs), including practicum and internship, and a doctoral dissertation as follows:
 - APD 1263H *Research Methods in Counselling and Clinical Psychology*
 - APD 2293H *Interpretation of Educational Research*
 - APD 3215H *Advanced Psychotherapy Seminar*
 - APD 3217Y *Advanced Practicum in Clinical and Counselling Psychology*
 - APD 3270H *EdD Internship*
 - one of the following:
 - APD 3201H *Qualitative Research Methods in Applied Psychology and Human Development*
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences*
 - APD 3228H *Mixed Methods Research Design in Social Sciences*
 - 1.0 FCE in electives.
- 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 APD 3217Y.
- **Internship**: complete 500 hours of internship (APD 3270H). All internship arrangements must be made in consultation with the Coordinator of Internship and Counselling Services.

Degree and Diploma Programs by Graduate Unit

- **Thesis**: all students must develop, complete, and defend a doctoral dissertation in a Doctoral Final Oral Examination. The content of the dissertation research may address theoretical issues applicable to counselling concerns and practice, relate to the development and/or evaluation of programs in an educational or applied setting, or in some other way contribute to the development and practice of counselling psychology. The doctoral dissertation is supervised by a full-time faculty member in the Counselling Psychology program.
- The EdD may be taken on a part-time basis.

Program Length

5 years full-time; 7 years part-time

Time Limit

6 years full-time; 6 years part-time

Field: Guidance and Counselling

Master of Education

This degree program provides individuals with the opportunity to learn and develop skills appropriate for the field of guidance and counselling in the schools. 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 and Psychotherapy Association (CCPA). 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the additional admission requirements of the Department of Applied Psychology and Human Development stated below.
- 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), as follows:
 - APD 1202H *Theories and Techniques of Counselling and Psychotherapy*
 - APD 1203Y *Practicum I: Interventions in Counselling Psychology and Psychotherapy*
 - APD 1214H *Critical Multicultural Practice: Diversity Issues in Counselling and Psychotherapy* (prerequisite: APD 1202H and co-requisite: APD 1203Y)

Degree and Diploma Programs by Graduate Unit

- APD 1219H *Ethical Issues in Professional Practice and Psychotherapy*
- APD 1261H *Group Work in Counselling and Psychotherapy*
- APD 1262H *Educational Psychological Testing for Counselling*
- APD 1266H *Career Counselling and Development: Transition from School to Work*
- 1.0 FCE in electives.
- A comprehensive examination.

Program Length

5 sessions (2 years) full-time (typical registration sequence: F/W/S/F/W);
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.

APD 1202H	Theories and Techniques of Counselling
APD 1203Y ⁺	Practicum I: Interventions in Counselling Psychology
APD 1204H	Personality Theories
APD 1207H	Counselling Topics in Sexual Orientation and Gender Identity Diversity
APD 1214H	Critical Multicultural Practice: Diversity Issues in Counselling and Psychotherapy
APD 1219H	Ethical Issues in Professional Practice in Psychology
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1229H	Individual and Group Psychotherapy for Counselling
APD 1238H	Special Topics in Human Development and Applied Psychology
APD 1245H	Brief Strategies in Counselling and Psychotherapy
APD 1247H	Practicum in Adult Counselling and Psychotherapy
APD 1252H	Individual Reading and Research in Counselling Psychology: Master's Level
APD 1253H	Feminist Issues in Counselling Psychology and Psychotherapy

APD 1261H	Group Work in Counselling and Psychotherapy
APD 1262H	Educational and Psychological Testing for Counselling
APD 1266H	Career Counselling and Development: Transition from School to Work
APD 1268H	Career Counselling and Development: Transitions in Adulthood
APD 1269H	Use of Guided Imagery in Counselling and Psychotherapy
APD 1275H	Special Topics in Counselling Psychology (Master's)
APD 1278H	Cognitive Therapy
APD 1290H	Indigenous Healing in Counselling and Psychoeducation
APD 2293H	Interpretation of Educational Research
APD 3201H	Qualitative Research Methods in Human Development and Applied Psychology
APD 3202H	A Foundation of Program Evaluation in Social Sciences
APD 3215H	Advanced Psychotherapy Seminar
APD 3216H	Seminar in Counselling Psychology: Part II
APD 3217Y ⁺	Advanced Practicum in Clinical and Counselling Psychology
APD 3228H	Mixed Methods Research Design in Social Science
APD 3253H	Individual Reading and Research in Counselling Psychology: Doctoral Level
APD 3258H	Special Topics in Counselling Psychology
APD 3268Y	Internship in Clinical and Counselling Psychology
APD 3269H	Research Seminar in Critical Multicultural Counselling and Psychotherapy
APD 3270H	EdD Internship
APD 3271H ⁰	Additional PhD Practicum

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.

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.

APD 1263H	Research Methods in Counselling and Clinical Psychology
APD 1287H	Introduction to Applied Statistics
APD 1288H	Intermediate Statistics and Research Design
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
CTL 1602H	Introduction to Computers in Education
LHA 1105H	Introduction to Qualitative Research: Part I
LHA 1106H	Introduction to Qualitative Research: Part II
LHA 1109H	Creative Empowerment Work with the Disenfranchised
LHA 1111H	Working with Survivors of Trauma

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

Applied Psychology and Human Development's additional admission requirements stated below.

- 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.
 - APD 1209H *Research Methods and Thesis Preparation in Human Development and Applied Psychology*
 - APD 1288H *Intermediate Statistics and Research Design*
 - APD 2252H *Individual Reading and Research*
 - Additional courses from the MA required courses listed in the departmental guidelines menu
 - Students who have not taken a previous course in human development are required to take APD 1201H *Child and Adolescent Development* or an equivalent.
 - In addition to their required 3.0 FCEs, students who have not taken a previous course in statistics are required to take APD 1287H *Introduction to Applied Statistics* or an equivalent course.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Master of Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.
- 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 taken on a full-time or part-time basis. The length of time required to

Degree and Diploma Programs by Graduate Unit

complete the program will vary depending on full-time or part-time status.

- 5.0 full-course equivalents (FCEs).
- **Year 1**
 - APD 1200H *Foundations of Human Development and Education*
 - APD 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 Applied Psychology and Human Development program guidelines.

The 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.

Program Length

4 sessions (1.5 years) full-time (typical registration sequence: F/W/S/F);
10 sessions part-time

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.

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 the MA in Developmental Psychology and Education. Students who have not completed a master's thesis will be required to submit a Qualifying Research Paper (QRP) prior to final admission to the program.

- Required letters of recommendation and a second academic letter of recommendation.

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.

Program Requirements

- Degree requirements for the full-time and flexible-time PhD programs are the same.

Full-Time PhD

- 3.0 full-course equivalents (FCEs) as follows:
 - APD 3200H *Research Proseminar in Human Development and Applied Psychology* (0.5 FCE),
 - 0.5 FCE in statistics and research methods from an approved menu,
 - 1.0 FCE from the Developmental Psychology and Education doctoral program menu,
 - 1.0 elective FCE.

The 3.0 FCEs are normally completed in the first year of the program and should be chosen in consultation with the faculty advisor. Students who have an insufficient background in developmental psychology may have to complete additional courses.

- A comprehensive examination.
- A thesis and Final Oral Examination.

Flexible-Time PhD

- 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 program is designed to accommodate demand by practising professionals for a PhD degree that permits continued employment in areas related to their fields of research. Degree requirements for the flexible-time PhD are the same as for the full-time PhD program.

Emphasis: Early Learning

Application to the emphasis is not required. Courses required for the emphasis are currently only available to students in the flexible-time PhD program. Note that full-time PhD students interested in the emphasis should consult the Graduate Coordinator.

- Students wishing to complete the emphasis in Early Learning will include the following courses (3.0 full-course equivalents [FCEs]) in their overall PhD program:
 - 0.5 FCE APD 3200H *Researching Proseminar in Human Development and Applied Psychology*

- 0.5 FCE APD 3273H *Researching Early Learning* (an overview course of quantitative and qualitative methodology which meets the requirements of an intermediate or higher-level statistics course required of all Developmental Psychology and Education students)
- APD 1211H *Psychological Foundations of Early Development and Education*
- APD 3274H *Early Learning and Thesis Development* (which together meet the 1.0 FCE requirement from the Developmental Psychology and Education doctoral program menu)
- 1.0 FCE elective chosen in consultation with the student's course advisor.

Students who complete the emphasis requirements will receive a letter of completion from the department.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Course List

APD 1200H	Foundations of Human Development and Education
APD 1201H	Child and Adolescent Development
APD 1209H	Research Methods and Thesis Preparation in Human Development and Applied Psychology
APD 1211H	Psychological Foundations of Early Development and Education
APD 1217H	Foundations of Proactive Behavioural and Cognitive-Behavioural Intervention with Children
APD 1238H	Special Topics in Human Development and Applied Psychology
APD 1256H	Child Abuse: Intervention and Prevention
APD 1259H	Family Relationships with Early Childhood Services and Schools
APD 1272H	Play and Education
APD 1284H	Psychology and Education of Children and Adolescents with Behaviour Disorders
APD 1288H	Intermediate Statistics and Research Design
APD 1289H	Multivariate Analysis with Applications
APD 1292H	Instrument Design and Analysis
APD 1293H	Applied Research Design and Data Analysis
APD 1294H	Technology, Psychology, and Play

Degree and Diploma Programs by Graduate Unit

APD 1296H	Assessing School-Aged Language Learners
APD 2275H	Technology for Adaptive Instruction and Special Education
APD 2280H	Introduction to Special Education and Adaptive Instruction
APD 2292H	Assessment for Instruction
APD 2293H	Interpretation of Educational Research
APD 2296H	Reading and Writing Difficulties
APD 3200H	Research Pro-seminar in Human Development and Applied Psychology
APD 3203H	Children's Theory of Mind
APD 3225H	Assessment and Diagnosis of Personality and Psychopathology
APD 3238H	Special Topics in Human Development and Applied Psychology
APD 3272H	Early Learning Practice, Research, and Policy
APD 3273H	Researching Early Learning: An Overview Course of Quantitative and Qualitative Methodology
APD 3274H	Early Learning and the Thesis
APD 3275H	International Policy Perspectives on Early Learning
APD 3297H	Biological and Psychological Foundations of Low Incidence Disorders
JDS 1249H	Social-Emotional Development and Applications
JDS 3000H	Advanced Methods in Developmental Science
JPX 1001H	Parenting: Multidisciplinary Perspectives

Individual Reading and Research Courses

APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level
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School and Clinical Child Psychology

The mission of the School and Clinical Child Psychology (SCCP) program is to provide students with theoretical, research, and professional training in preparation for leadership in psychological practice with children, adolescents, and families in school, mental health, private practice, and research settings. The program follows a scientist-practitioner model and is designed to train students to conduct basic and applied research

Degree and Diploma Programs by Graduate Unit

and provide professional training in psychological assessment, therapy, and other psychosocial and instructional interventions, professional consultation, and prevention.

Opportunities are available for research and professional work with infants, young children, adolescents, adults, and families. The degrees are intended to meet the academic requirements of the College of Psychologists of Ontario (CPO) for registration as a Psychological Associate (MA) or Psychologist (PhD).

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.
- 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 second, 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.
 - APD 1202H *Theories and Techniques of Counselling*
 - APD 1205H *Ethical Issues in Applied Psychology*
 - APD 1215H *Psychological Assessment of School-Aged Children*

- APD 1216H *Psychoeducational Assessment*
- APD 1218H *Seminar and Practicum in School-Based Assessment, Consultation, and Intervention*
- APD 1236H *Developmental Psychopathology*
- APD 1285H *Psychology and Education of Children with Learning Disabilities*
- APD 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 senior undergraduate level approved by the program may substitute an elective course for this requirement or a course in the Biological Bases of Behaviour or Social Bases of Behaviour menus, or APD 3204H, *Contemporary History and Systems in Human Development and Applied Psychology*.)
- 0.5 FCE elective course.
- A listing of approved Cognitive/Affective, Social, and Biological bases of behaviour courses is available on the department website and in the Applied Psychology and Human Development program guidelines.
- The practicum portion of APD 1218H consists of 250 hours (one day a week from September to June) and is normally taken in a school setting.
- In addition to the above course requirements, students will be required to take APD 1201H *Childhood and Adolescent Development* and APD 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 APD 1215H *Psychological Assessment of School-Aged Children* and APD 1216H *Psychoeducational Assessment*, and must complete APD 1218H *Seminar and Practicum in School-Based Assessment, Consultation, and Intervention* 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

Applied Psychology and Human Development's additional admission requirements stated below.

- Normally, an appropriate bachelor's degree in psychology or its equivalent and a University of Toronto MA in School and Clinical Child Psychology 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.
- 1.0 full-course equivalent (FCE) at the senior undergraduate level, or 0.5 FCE at the graduate level, in each of the following cognate areas: Cognitive/Affective Bases of Behaviour, Social Bases of Behaviour, Biological Bases of Behaviour, and History and Systems of Psychology.

Program Requirements

- 5.5 FCEs, including a doctoral practicum course and an internship course, as follows:
 - APD 3260H *Psychodiagnostic Systems*
 - APD 3222H *Approaches to Psychotherapy Across the Lifespan*
 - APD 3240H *Advanced Social and Emotional Assessment Techniques*
 - APD 3241H⁺ *Seminar and Practicum in Clinical Assessment and Intervention* (normally taken in Year 2 of the program). The practicum portion of APD 3241H⁺ consists of 500 hours (two days a week from September to June) and is normally taken in a clinical setting.
 - APD 5284Y⁺ *Assessment and Intervention with Culturally and Linguistically Diverse Children, Youth, and Families*
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences*
 - 0.5 FCE from the Psychosocial Interventions course menu
 - 0.5 FCE elective course
 - APD 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 in the final year of the student's program.
- 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.
- For each missing cognate course requirement (Cognitive/Affective, Social, or Biological Bases of

Behaviour; see Admissions Requirements above), students are required to take a 0.5 FCE course from the applicable course menu, which can be found on the department website and in the Applied Psychology and Human Development program guidelines. Students may use their elective course to cover one of these requirements.

- In addition to the above course requirements, students must take APD 1201H *Childhood and Adolescent Development* and APD 1287H *Introduction to Applied Statistics* if equivalent courses have not been taken previously.
- Students must complete APD 3241H⁺ *Seminar and Practicum in Clinical Assessment and Intervention* in order to remain in good standing and be permitted to continue in the program.
- Students who are required to take APD 1215H, APD 1216H, and APD 1218H in addition to other courses in the PhD (which is the case for most students coming into the program from elsewhere) must achieve a minimum of A- in at least one of APD 1215H *Psychological Assessment of School-Aged Children* and APD 1216H *Psychoeducational Assessment*, and must complete APD 1218H⁺ *Seminar and Practicum in School-Based Assessment, Consultation, and Intervention* 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.

Program Length

5 years full-time

Time Limit

6 years full-time

Course List

APD 1202H	Theories and Techniques of Counselling
APD 1205H	Ethical Issues in Applied Psychology
APD 1215H	Psychological Assessment of School-Aged Children
APD 1216H	Psychoeducational Assessment
APD 1217H	Foundations of Proactive Behavioural and Cognitive-Behavioural Intervention with Children
APD 1218H ⁺	Seminar and Practicum in School-Based Assessment, Consultation, and Intervention
APD 1234H	Foundations of Cognitive Science
APD 1236H	Developmental Psychopathology
APD 1237H	Cognitive Development and Learning

Degree and Diploma Programs by Graduate Unit

APD 1238H	Special Topics in Human Development and Applied Psychology
APD 1256H	Child Abuse: Intervention and Prevention
APD 1285H	Psychology and Education of Children with Learning Disabilities
APD 1288H	Intermediate Statistics and Research Design
APD 1291H	Addictive Behaviours: Approaches to Assessment and Intervention
APD 1299H	Language Acquisition and Development
APD 3202H	A Foundation of Program Evaluation in Social Sciences
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
APD 3205H	Social and Moral Development
APD 3208H	Adolescence
APD 3221H	Cross-Cultural Perspectives on Children's Problems
APD 3222H	Approaches to Psychotherapy Across the Lifespan
APD 3224H	Advanced Proactive Behavioural and Cognitive-Behavioural Interventions
APD 3231H	Psychodynamic Bases of Therapy
APD 3240H	Advanced Social and Emotional Assessment Techniques
APD 3241H ⁺	Seminar and Practicum in Clinical Assessment and Intervention
APD 3242Y	Internship in School and Clinical Child Psychology
APD 3243H	Additional PhD Practicum in Assessment and Intervention
APD 3255H	Systemic Family Therapy
APD 3260H	Psychodiagnostic Systems
APD 3286H	Developmental Neurobiology
APD 3297H	Biological and Psychological Foundations of Low Incidence Disorders
APD 5284Y ⁺	Assessment and Intervention with Culturally and Linguistically Diverse Children, Youth, and Families
JDS 1233H	Cognitive Development and Applications
JHC 1251H	Reading in a Second Language

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

Graduate Faculty

Full Members

Arnold, Mary Louise - BA, MA, EdD
 Atkinson, Leslie - PhD
 Chen, Charles - BA, MEd, MA, PhD
 Chen, Xi (Becky) - BA, MEd, MA, PhD
 Childs, Ruth - BS, MA, PhD
 Ducharme, Joseph - BA, MPsy, PhD
 Ferrari, Michel - BA, MA, PhD
 Fleming, Alison - BS, PhD
 Geva, Esther - BA, MA, PhD
 Gillis, Joseph - BSc, MA, PhD
 Goldstein, Abby - BA, MA, PhD
 Henderson, Joanna - BA, MA, PhD
 Jang, Eunice - BA, MA, PhD
 Jenkins, Jennifer - BA, MA, PhD
 Lee, Kang - BSc, MEd, PhD
 Lovett, Maureen - BSc, MSc, PhD
 Moscovitch, Morris - BSc, MA, PhD, Dr. Max and Gianna Glassman Chair in Neuropsychology
 O'Sullivan, Julia - BA, MA, PhD
 Pelletier, Janette - AB, BE, MEd, PhD
 Perlman, Michal - BA, MA, PhD
 Peskin, Joan - BA, MPsy, PhD
 Peterson-Badali, Michele - BA, MA, PhD
 Piran, Niva - BA, PhD
 Portelli, John - MEd, PhD
 Schachar, Russell James - MD
 Schmuckler, Mark - BA, PhD
 Schneider, Margaret - BA, MA, PhD
 Scott, Katreena - BA, MA, PhD
 Skilling, Tracey - BA, MASc, PhD
 Stermac, Lana - BSc, MA, PhD
 Volpe, Richard - BA, MA, PhD
 Watson, Jeanne - PhD
 Wiener, Judith - BA, MEd, PhD
 Willows, Dale - PhD
 Woodruff, Earl - MA, PhD **(Chair and Graduate Chair)**

Members Emeriti

Bereiter, Carl - PhD
 Biemiller (Jr), Andrew - BA, MS, PhD
 Corter, Carl - BA, PhD
 Guttman, Mary Alice - BEd, MSc, PhD
 Tannock, Rosemary - BSc, MA, PhD
 Wolfe, Richard - BA

Associate Members

Akman, Donna - PhD
 Andrade, Brendan - PhD
 Augimeri, Leena - BA, MEd, PhD
 Bertrand, Jane - BA, MEd

Degree and Diploma Programs by Graduate Unit

Brian, Jessica - BA, MA, PhD
Brown, Shelley Lynn - PhD
Carrasco, Marisa - PhD
Cesaroni, Carla - BA, MA, PhD
Charach, Alice - MD
Chong, Jody - DPhil
Cleovoulou, Yiola - BA, BEd, MA, PhD
Cohen, Nancy - BSc, MSc, PhD
Dudley, Albert P. - PhD
Farnia, Fataneh - PhD
Gottardo, Alexandra - PhD
Greenbaum, Rachel - PhD
Herbert, Monique - BSc, AA, MA, PhD
Husbands, Winston - BA, MPH, PhD
Jain, Umesh - BSc, MEd, MD, PhD
Jasper, Karin - BA, MA
Jiang, Depeng - BSc, MSc, PhD
Katz, Steven - BA, MEd, PhD
Killian, Kyle - PhD
Kwan, Kenneth - MEd, PhD
Langford, Rachel - MEd, PhD
Langton, Calvin - PhD
Leckie, George - PhD
Malone, Molly - BSc
Martinussen, Rhonda - BE, MEd, PhD
Maurer, Daphne - PhD
McBride, Hazel - BA, BEd, MPsy, PhD
McMain, Shelley - BSc, MA, PhD
Moodie, Sheila - PhD
Moodley, Roy - BA, MA, PhD
Moss, Joan - BA, MA, PhD
Okamoto, Yukari - BA, MS, PhD
Pyle, Angela - BEd, BA, MEd, PhD
Ramirez Gomez, Gloria - PhD
Rogers, Maria - PhD
Rovet, Joanne - BSc, PhD
Ruck, Martin - PhD
Schmidt, Fred - BA, MA, PhD
Silver, Judith - BSc, PhD
Stewart, John - MD
Stewart, Suzanne - BA, MA, PhD
Toneatto, Anthony - BSc, PhD
Turrell, Sheri - BNSc, MA, PhD

Architecture, Landscape, and Design

Faculty Affiliation

Architecture, Landscape, and Design

Degree Programs

Architecture

MArch

Landscape Architecture

MLA

Urban Design

MUD

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. **Knowledge Media Design**
 - Architecture, MArch
 - Landscape Architecture, MLA
 - Urban Design, MUD
2. **Sexual Diversity Studies**
 - Visual Studies, MVS

Overview

The Faculty of Architecture, Landscape, and Design offers four 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.

The **Master of Visual Studies** (MVS) 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

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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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Architecture, Landscape, and Design's additional admission requirements stated below.

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.
- Recommended: courses in secondary calculus, secondary physics, and university architectural history (0.5 full-course equivalent [FCE]).
- 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.
- 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-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 architectural 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 a rigorous full-time, comprehensive program and prepares 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 or lower in two design studio courses or 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 additional language requirement other than proficiency in English on admission. Writing

Degree and Diploma Programs by Graduate Unit

support is integrated into the program in order to develop specialized skills that are essential to effective learning and communication in the design fields.

- All studio courses must be completed in sequence due to prerequisite requirements.

Specific Program Requirements

3.5-Year Program

- Students must take a total of 17.5 full-course equivalents (FCEs) as follows:
 - 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
 - 2.5 FCEs in electives, of which 1.0 FCE must be in the History and Theory stream

Program Length

7 sessions full-time (typical registration sequence: F/W/F/W/F/W/F)

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:
 - 10.0 FCEs core courses
 - 2.0 FCEs Design Studios
 - 2.0 FCEs Option Design Studios
 - 0.5 FCE Thesis Preparation and Research course
 - 1.5 FCEs Design Thesis
 - 0.5 FCE Computer Modelling course
 - 2.5 FCEs Technics and Planning courses
 - 1.0 FCE Professional Practice course
 - 2.5 FCEs elective courses, of which 1.0 FCE must be in the History and Theory stream

Program Length

5 sessions full-time (typical registration sequence: F/W/F/W/F)

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:
 - 4.5 FCEs core courses
 - 2.0 FCEs Option Design Studios
 - 0.5 FCE Proseminar course

Degree and Diploma Programs by Graduate Unit

- 0.5 FCE Thesis Preparation and Research course
- 1.5 FCEs Design or Research Thesis
- 3.0 FCEs elective courses

Program Length

3 sessions full-time (typical registration sequence: F/W/F)

Time Limit

4 years full-time

Course List

Consult the department regarding course availability.

Core Courses

Computer Modelling

ARC 2023H	Intermediate Computer Applications in Architecture
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Design

ARC 1011Y	Design Studio 1
ARC 1012Y	Design Studio 2
ARC 2013Y	Design Studio 3
ARC 2014Y	Design Studio 4
LAN 3016Y	Design Studio Options or
URD 2013Y	Urban Design Studio Options or
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

History and Theory

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

Professional Practice

ARC 3052Y	Professional Practice
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Proseminar

ALA 3031H	Proseminar
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Technics and Planning

ARC 1041H	Architecture in its Technological-Ecological Context
ARC 1042H	Site Engineering and Ecology
ARC 2043H	Building Science, Materials, and Construction 1
ARC 2044H	Structures 1

ARC 2045H	Building Science, Materials, and Construction 2
ARC 2046H	Structures 2
ARC 2047H	Environmental Systems

Visual Communication

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

Elective Courses

Not all elective courses are offered every year. Please check the timetable for current listings made available online from the summer.

Architecture and Health

ARC 3060H	History and Theory of Architecture and Health
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Computer Modelling

ARC 3024H	Advanced Computer Applications in Architecture
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Design

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

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
JCA 5112H	Staging the World Picture: Universal Exhibitions from the Crystal Palace to Shanghai

Proseminar

ARC 4053H	Topics in Professional Practice
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Technics and Planning

ARC 3041H	Selected Topics in Architecture, Technology, Ecology
ARC 3042H	Sustainable Architecture

Landscape Architecture

Master of Landscape Architecture

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Architecture, Landscape, and Design's additional admission requirements stated below.

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 admissions committee.
- **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 20th-century), and two courses in architectural technology and/or ecology.

Degree and Diploma Programs by Graduate Unit

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 or lower in two design studio courses or 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 additional language requirement other than proficiency in English on admission. Writing support is integrated into the program in order to develop specialized skills that are essential to effective learning and communication in the design fields.
- All studio courses must be completed in sequence due to prerequisite requirements.

Specific Program Requirements

3-Year Program (15.5 FCEs)

- Students must take a total of 14.5 full-course equivalents (FCEs) in core courses as follows:
 - 4.0 FCEs Design Studios
 - 1.0 FCE Design Studio Options
 - 1.5 FCEs Design Studio Thesis
 - 2.0 FCEs Visual Communication courses
 - 2.0 FCEs History and Theory courses
 - 1.5 FCEs Technology courses
 - 1.5 FCEs Environment courses
 - 1.0 FCE Proseminar course.
- Students must take a total of 1.0 FCE in elective courses.

Program Length

6 sessions full-time (typical registration sequence: F/W/F/W/F/W)

Time Limit

3 years full-time

2-Year Program: Second-Year Advanced-Standing Option (10.5 FCEs)

- Students must take a total of 9.5 full-course equivalents (FCEs) in core courses as follows:
 - 2.0 FCEs Design Studios
 - 1.0 FCE Design Studio Options
 - 1.5 FCEs Design Studio Thesis
 - 1.0 FCE Visual Communication courses
 - 0.5 FCE History and Theory courses

Degree and Diploma Programs by Graduate Unit

- 1.0 FCE Technology courses
- 1.5 FCEs Environment courses
- 1.0 FCE Proseminar courses.
- Students must take a total of 1.0 FCE in elective courses.

Program Length

4 sessions full-time (typical registration sequence: F/W/ F/W)

Time Limit

3 years full-time

1-Year Program: Post-Professional Advanced-Standing Option (5.0 FCEs)

- Students must take a total of 4.5 full-course equivalents (FCEs) in core courses as follows:
 - 1.0 FCE Design Studio Options
 - 1.5 FCEs Design Studio Thesis
 - 0.5 FCE Visual Communication course
 - 0.5 FCE Technology course
 - 1.0 FCE Proseminar courses.
- Students must take a total of 0.5 FCE in elective courses.

Program Length

2 sessions full-time (typical registration sequence: F/W)

Time Limit

3 years full-time

Course List

Consult the department regarding course availability.

Core Courses

Design

LAN 1011Y	Design Studio 1
LAN 1012Y	Design Studio 2
LAN 2013Y	Design Studio 3
LAN 2014Y	Design Studio 4
LAN 3016Y URD 2013Y ARC 3015Y	Design Studio Options or Urban Design Studio Options or Architectural Design Studio 5: Option Studios
LAN 3017Y	Design Studio Thesis

Environment

LAN 1041H	Field Studies 1
LAN 1043H	Field Studies 2
LAN 2043H	Landscape Ecology
LAN 2044H	Landscape Hydrology

History and Theory

LAN 1031H	History Theory Criticism 1
LAN 1032H	History Theory Criticism 2

LAN 1036H	Plants and Design
LAN 2037H	Contemporary Landscape Theory

Proseminar

ALA 3031H	Proseminar
LAN 3051H	Thesis Research and Preparation
LAN 3052H	Professional Practice

Technology

LAN 1045H	Site Technologies 1
LAN 2042H	Site Technologies 2
LAN 3045H	Advanced Site Technologies

Visual Communication

LAN 1021H	Visual Communication 1
LAN 1022H	Visual Communication 2
LAN 2023H	Intermediate Visual Communication
LAN 3025H	Advanced Visual Communication

Elective Courses

Not all elective courses are offered every year. Please check the timetable for current listings made available online from the summer.

Design

LAN 2072H	Landscape Architecture Topics: Design
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Environment

LAN 2073H	Landscape Architecture Topics: Environment
LAN 2075H	Landscape Architecture Topics: Plants

History and Theory

LAN 2039H	Independent Study in Landscape Architecture
LAN 2077H	Landscape Architecture Topics: Society
LAN 2079H	Landscape Architecture Topics: Theory

Proseminar

LAN 2076H	Landscape Architecture Topics: Practice
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Technology

LAN 2078H	Landscape Architecture Topics: Technology
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Visual Communication

LAN 2071H	Landscape Architecture Topics: Communication
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Urban Design

Master of Urban Design

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Architecture, Landscape, and Design's additional admission requirements stated below.

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 makeup 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 or lower in two design studio courses or 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 additional language requirement other than proficiency in English on admission. Writing support is integrated into the program in order to develop specialized skills that are essential to effective learning and communication in the design fields.
- All studio courses must be completed in sequence due to prerequisite requirements.

Specific Program Requirements

- Students must take a total of 10.0 full-course equivalents (FCEs) as follows:
 - 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
 - 3.0 FCEs in elective courses, of which 2.0 FCEs must be selected from offerings in the History, Theory, Criticism category.

Program Length

4 sessions full-time (typical registration sequence: F/W/F/W)

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 LAN 3016Y ARC 3015Y	Urban Design Studio Options or Design Studio Options or Architectural Design Studio 5: Option Studios
URD 2015Y	Urban Design Studio Thesis

History, Theory, Criticism

URD 1031H	Urban History, Theory, Criticism
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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 on the website for current listings available from the summer.

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

Visual Studies

Master of Visual Studies

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Architecture, Landscape, and Design's additional admission requirements stated below.
- 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:
 - 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 (CV) with details of exhibition, professional activity, and education
 - documentation of recent studio or curatorial work
 - three letters of recommendation.
- Applicants to the MVS program, Studio field, 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).
- Applicants to the MVS program, Curatorial Studies field, must present a sample of curatorial or critical writing (published or unpublished), exhibition brochures, announcement cards, and/or catalogues from curatorial work.
- Proficiency 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 primary language of instruction and examination was not English.

Program Requirements

- Full-time program normally begins in September.
- All students must complete a total of 6.0 full-course equivalents (FCEs) including 4.5 FCEs from the approved course list for each field and 1.5 FCEs in outside electives. Reading courses (VIS 3001H or VIS 3002H) may be counted towards the 1.5 FCE elective requirements. Elective courses are selected in consultation with the student's advisor and are subject to the approval of the Program Director.

- The internship requirement is normally completed during the Summer session between Year 1 and Year 2.
- 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 non-credit course that normally meets biweekly.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

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 Project
VIS 2102H	MVS Curatorial Research

MVS Reading Courses

VIS 3001H	Advanced Readings in Visual Studies
VIS 3002H	Advanced Readings in Curatorial Studies

Graduate Faculty

Full Members

Danahy, John - BLA, MRP
 Farhat, Georges - MSc, MA
 Kesik, Ted - BAsC, MASc, DPhil
 Levit, Robert - BA, MArch (**Associate Dean, Academic**)
 Liu, An Te - BA, MArch
 Lloyd, Sue - BA, MFA
 Lobsinger, Mary Lou - BArch, BES, BA, MES, PhD
 North, Alissa - BLA, MLA
 Sampson, Barry - BArch
 Schelle, Susan - BFA
 Sommer, Richard - BFA, BArch, MArch (**Dean**)
 Steele, Lisa - BA
 Wiitasalo, Shirley
 Williamson, Robert Shane - BSc, MArch
 Wolff, Jane - AB, MLA
 Wright, Robert - BSc, MLA

Members Emeriti

van Ginkel, Blanche - BArch, MCP

Associate Members

Celik, Zeynep - MArch, PhD
 Chaouni, Aziza - BScCE, MArch
 Fischer, Barbara - BFA, MA
 Fong, Steven - BArch, MArch
 Hlady, Marla - BFA, MFA
 Hlynsky, David - BFA
 Irving, Stephen - BFA, MFA
 Kwan, Will - BA, MFA
 Lieberman, David - DiplngArch, BFA
 Margolis, Liat - MLA
 Miller, Laura J. - BA, MArch
 Moukheiber, Carol Leila - BArch, BA
 North, Peter - BLA, MLA
 Peters, Brady - BS, BES, MArch
 Petricone, Pina - MArch
 Piper, Michael - BArch, BS
 Shelley, Elise - BSc, MArch, MLA
 Shim, Brigitte - BES, BAR
 Shnier, John - BArch, BES
 Sterling, Mark - BES, BArch
 White, Mason - BArch, MArch

Art

Faculty Affiliation

Arts and Science

Degree Programs

History of Art

MA	<i>Fields:</i> Ancient Medieval Renaissance and Baroque Modern
PhD	<i>Fields:</i> Ancient Medieval Renaissance and Baroque Modern

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
2. **Diaspora and Transnational Studies**
 - History of Art, MA, PhD
3. **Jewish Studies**
 - History of Art, MA, PhD
4. **Sexual Diversity Studies**
 - History of Art, MA, PhD

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.

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Art's additional admission requirements stated below.
- Strong overall grade average in history of art and closely related subjects and at least a 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 fields: Ancient; Medieval; Renaissance and Baroque; Modern. It must also be taken in at least two geographic areas (Western, East Asian, South Asian, African, etc.). Courses without a specific regional focus may count toward the geographical distribution requirement if the student's final paper is on an appropriate topic. No more than 2.0 FCEs may be taken in any one of these fields. 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 (normally) French, German, Italian, or Chinese; tested in the first session.
- Orientation to Art Historical Research Methods must be taken in first year.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 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. Applicants must also satisfy the Graduate Department of Art's additional admission requirements stated below.
- Minimum A- average in MA.

Degree and Diploma Programs by Graduate Unit

- 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 two languages, normally including French, German, Italian, or Chinese; tested in the first session.
- Students unable to meet language requirements for particular courses may be refused admission to courses; enrolment in Fall courses is limited and subject to instructor's approval.
- Students without an MA in Art from the University of Toronto may be required to complete at least 1.0 additional full-course equivalent (FCE).
- Acceptance is limited to students who propose theses corresponding to research expertise of faculty. See faculty research profiles.

Program Requirements

- Students with an MA take at least 3.0 full-course equivalent (FCEs) of graduate courses, 1.0 FCE of which is a CR/NCR reading course (FAH 4000Y) with the student's interim supervisor to prepare for the comprehensive examinations.
- Students with a BA must take a minimum of 5.5 FCEs in art history 1.0 FCE of which is a CR/ NCR reading course taken in the second year with the student's interim supervisor to prepare for the comprehensive examinations and maintain an average grade of at least an A-. Coursework must be chosen from at least three of four fields: Ancient; Medieval; Renaissance and Baroque; Modern. It must also be taken in at least two geographic areas (Western, East Asian, South Asian, African, etc.). Courses without a specific regional focus may count toward the geographical distribution requirement if the students' final paper is on an appropriate topic.
- 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 (normally including German, French, Italian, or Chinese) 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 fields, the second on the dissertation field, and the third (oral) discussing the first two. The exam consists of an in-house written section, a take-home essay, and an oral exam. 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. If a student fails the comprehensive examinations, one further attempt is allowed, no more than three months later. A second failure results in the immediate removal of the student from the program.
- 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.

Program Length

4 years full-time;

5 years direct-entry (some students may take longer to complete the program)

Time Limit

6 years full-time;

7 years direct-entry

Degree and Diploma Programs by Graduate Unit

Course List

Not all courses are offered each year. Check the departmental website for course availability under the current timetable.

Methods

FAH 1001H	Methods of Art History
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Ancient

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 2023H	Mind and Materiality: Views from Art History and Archaeology
FAH 2025H	Visual Narrative and Time in Ancient Greek and Roman Art
FAH 2026H	Myth into Art: Myth and Visual Narrative in Antiquity
FAH 2027H	Women and Gender in Ancient Greece
FAH 2034H	Topics in Roman Imperial Art

Medieval

FAH 1114H	Multicultural Arts of Medieval Sicily
FAH 1120H	Medieval Pilgrimage Art and Architecture
FAH 1121H	12th-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

Renaissance and Baroque

FAH 1202H	Correggio and the Problem of Italian Renaissance Art
FAH 1203H	Art and Monasticism in Renaissance Italy
FAH 1204H	The Cassinese Art of Reform in Renaissance Italy
FAH 1221H	Inside the Painter's Studio
FAH 1224H	Renaissance in Miniature
FAH 1226H	Architecture and Alchemy Before Modernism

FAH 1229H	Architecture of the Global Renaissance
FAH 1231H	Northern Renaissance Sculpture
FAH 1240H	Art Biography
FAH 1243H	The Economic Lives of Renaissance and Baroque Artists
FAH 1245H	Pieter Bruegel and Netherlandish Sixteenth-Century Painting
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
FAH 1299H	Heinrich Wölfflin's Principles of Art History (1915) @ 100: A Worldwide Reception History

Modern

FAH 1410H	Artwriting, Past and Present
FAH 1456H	Theories of Photographic Manipulation: Prehistories to Pictorialism
FAH 1462H	Photography and Scientific Representation in the 19th Century
FAH 1464H	The Recalcitrant Icon
FAH 1475H	Picasso
FAH 1477H	Psychoanalysis and the Visual
FAH 1478H	Art and Animation
FAH 1481H	Automotive Affects
FAH 1482H	The Time of Art History
FAH 1486H	Bloomsbury and Vorticism
FAH 1492H	Retreating the Aesthetic
FAH 1494H	Queer Sexuality, Visuality, and Theory
FAH 1500H	Augmented Reality Art
FAH 1520H	Photography and Modernism
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 1935H	Contemporary Art Practices and the Modernist Archive
FAH 1951H	Contemporary Chinese Art and its Discontents
FAH 1956H	Can Art History Speak Chinese?
FAH 1970H	The Art of Confrontation: Chinese Visual Culture in the 20th and 21st Centuries
FAH 2022H	The Rhetoric of Space: Space as a Categorical Concept in Critical Histories of Art

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
FAH 5000Y	Comprehensive Examinations and Dissertation Topic Reading Course

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

Degree and Diploma Programs by Graduate Unit

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

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, PhD
 Harney, Elizabeth - AB, MA, PhD
 Jain, Kajri - PhD
 Kaplan, Louis - AB, AM, DPhil
 Kavalier, Ethan Matt - PhD
 Kim, SeungJung - BS, MA, MPH, PhD
 Knappett, Carl - MA, PhD (**Director of Graduate Studies**)
 Legge, Elizabeth MM - BA, BA, MA, PhD (**Chair and Graduate Chair**)
 Levy, Evonne - MFA, PhD
 Periti, Giancarla - PhD
 Purtle, Jennifer - BA, MPH, MA, PhD
 Reid, Dennis - BA, MA
 Ricco, John - BA, MA, PhD
 Sohm, Philip - BA, MA, PhD
 Syme, Alison - PhD

Members Emeriti

Eleen, Luba - BA, MA, PhD
 Richardson, Douglas - BA, MA, PhD
 Scavizzi, Giuseppe - PhD
 Shaw, Joseph - BA, MAT, PhD
 Shaw, Maria - PhD

Associate Members

Dewan, Deepali - BA, MA, PhD

Astronomy and Astrophysics

Faculty Affiliation

Arts and Science

Degree Programs Offered

Astronomy and Astrophysics

MSc

PhD

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), the Centre for Planetary Sciences (CPS), and the Dunlap Institute for Astronomy and Astrophysics (Dunlap), 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 Canada 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, postdoctoral fellows, graduate students, and staff in the Department of Astronomy and Astrophysics, CITA, CPS, and Dunlap. 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

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Telephone: (416) 946-5243

Fax: (416) 946-7287

Department of Astronomy and Astrophysics

University of Toronto
50 St. George Street
Toronto, Ontario M5S 3H4
Canada

Degree Programs Astronomy and Astrophysics

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Astronomy and Astrophysics' additional admission requirements stated below.
- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Applicants must also satisfy the Department of Astronomy and Astrophysics' additional admission requirements stated below.

- Applicants educated outside Canada should pay particular attention to the English-language competency requirements.
- Students are accepted into the PhD program through one of two routes:
 1. an appropriate master's degree 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 an 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.
- Students must successfully complete the two parts of the PhD qualifying examinations: general knowledge and thesis proposal. Both are oral examinations conducted by a panel of faculty members. The general knowledge section evaluates the student's mastery of general astronomy and astrophysics. The thesis proposal section evaluates the feasibility and value of the proposed thesis, and verifies that the student has sufficient preparation in the relevant research area. It is based in part on a written summary of the proposed thesis provided

Degree and Diploma Programs by Graduate Unit

by the student to the examiners. Both qualifying examinations are taken in the Summer session of Year 2 for direct-entry PhD students, and Year 1 for four-year PhD students.

- A minimum of four half courses (2.0 FCEs) from the AST preparatory, elective, or specialized courses. A maximum of two AST preparatory courses (1.0 FCE) may count toward the total 2.0 FCEs. Courses offered from a cognate department at an equivalent level may be substituted, subject to the approval of the Associate Chair, Graduate Studies, the instructor, and the host 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.

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.)

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

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

Degree and Diploma Programs by Graduate Unit

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
AST 3100H	Lecture Series in Specialized Topics (mini courses)

Supplementary Research for PhD Students

AST 3500H	Non-thesis Research Project in Astronomy/Astrophysics
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Vanderlinde, Keith - PhD
Wu, Yanqin - PhD
Yee, Howard - BSc, PhD, FRSC

Members Emeriti

Clement, Christine - BSc, MA, PhD
Clement, Maurice - BSc, MSc, PhD
Dyer, Charles - BS, MSc, PhD
Ferne, John Donald - BSc, MSc, PhD, FRAS
Garrison, Robert - BA, PhD
Percy, John - BSc, MA, PhD
Rucinski, Slavek - MS, PhD, DSc
Seaquist, Ernest - BSc, MSc, PhD

Associate Members

Dubinski, John - BSc, MSc, PhD
Reid, Michael - BSc, BSc, MSc, PhD, PhD

Graduate Faculty

Full Members

Abraham, Roberto - BSc, DPhil
Artymowicz, Pawel - MS, PhD
Bond, J Richard - BSc, MS, PhD, FRSC, FRS
Carlberg, Raymond - BSc, MS, PhD (**Chair and Graduate Chair**)
Gaensler, Bryan - PhD (**Director, Dunlap**)
Green, Daniel - PhD
Jayawardhana, Ray - BS, PhD
Lester, John - BA, MS, PhD
Lowman, Julian - BSc, MS, DPhil
Martin, Peter - BSc, MSc, PhD, FRSC
Matzner, Christopher - BA, MA, PhD
Menou, Kristen - BSc, MS, ScD (**Director, CPS**)
Moon, Dae-Sik - BS, MS, PhD
Murray, Norman - BSc, PhD, CRC (**Director, CITA**)
Netterfield, C. Barth - BSc, PhD
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - MSc, PhD, CRC
Rein, Hanno - MS, DPhil
Stanley, Sabine - BSc, PhD
Thompson, Christopher - BSc, PhD
Valencia, Diana - BS, MS, ScD
van Kerkwijk, Marten - MA, PhD (**Associate Chair, Graduate**)

Biochemistry

Faculty Affiliation

Medicine

Degree Programs

Biochemistry

MSc

PhD

Combined Degree Program: MD / 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. **Developmental Biology**
 - Biochemistry, MSc, PhD
3. **Genome Biology and Bioinformatics**
 - Biochemistry, PhD
4. **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 multicomponent 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 5207, Medical Sciences Building
Toronto, Ontario M5S 1A8
Canada

Biochemistry

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Biochemistry's additional admission requirements stated below.
- Normally, a minimum B+ average in the last two years of study in an honours/specialist BSc program in biochemistry/molecular biology. Applicants with strong academic credentials in honours/specialist programs in disciplines related to biochemistry/molecular biology are also considered.
- Applicants arrange for personal reference forms from three individuals familiar with their 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 Graduate Record Examination (GRE) 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 (Test of Written English) 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 International English Language Testing System (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*;
 - BCH 2024H⁰ *Focused Topics in Biochemistry*;
 - JTB 2010H *Proteomics and Functional Genomics*;
 - JTB 2020H *Applied Bioinformatics*;
 - JBB 2025H *Protein Crystallography*; or
 - JBB 2026H *Protein Structure, Folding and Design*.

Degree and Diploma Programs by Graduate Unit

- Participate in BCH 2020Y⁰ *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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)**

Time Limit

3 years full-time

** Students may begin the program at different times.

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Biochemistry's additional admission requirements stated below.
- Applicants must arrange for personal reference forms from three individuals familiar with their 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 General Record Examination (GRE) 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, a Michigan English Language Arts Battery (MELAB) score of at least 92 is also acceptable
- 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 2024H⁰ *Focused Topics in Biochemistry*.

Students may fulfil the 1.5-FCE course requirement entirely from this list.

- Participate in BCH 2022Y⁰ *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.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

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) [§]

Degree and Diploma Programs by Graduate Unit

BCH 1471Y	Advanced Biochemistry—Laboratory (BCH 471Y) [§] (prerequisite is BCH 371 [§] or equivalent)
BCH 2020Y ⁰	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 ⁰	Doctoral Seminar Course in Biochemistry (Credit/No Credit)
BCH 2024H ⁰	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
JB1 1428H	Molecular Immunology—Lectures (JB1 428H) [§]
JBL 1507H	Biochemistry of Inherited Disease
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—Lectures (PSL 444Y) [§]
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics

[§] Arts and Science undergraduate course

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

Adeli, Khosrow - DipChem, MSc, PhD

Andrews, David - 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
 Enenkel, Cordula - PhD
 Ernst, Oliver - 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
 Kapus, Andras - MD, PhD
 Kay, Lewis - PhD
 Keeley, Frederick - BSc, PhD
 Kelley, Shana - BA, PhD
 Klip, Amira - ScD
 Lewis, Peter - BSc, PhD
 Lingwood, Clifford - BSc, PhD
 MacLennan, David - BSc, MSc, PhD
 Manolson, Morris - BS, PhD
 Maynes, Jason T. - BSc, DrMed
 McQuibban, Angus - BSc, MSc, PhD (**Graduate Coordinator**)
 Melnyk, Roman - PhD
 Moraes, Trevor - BS, MSc, PhD
 Moran, Laurence - BSc, PhD
 Nodwell, Justin - PhD (**Chair and Graduate Chair**)
 Ohh, Michael - BSc, PhD
 Pai, Emil - PhD
 Palazzo, Alexander - PhD
 Parkinson, John - BS, PhD
 Pomes, Regis - PhD
 Prive, Gil - BSc, PhD
 Rand, Margaret - BSc, PhD
 Reithmeier, Reinhart - BSc, PhD
 Rini, James - BSc, PhD
 Robinson, Brian - BSc, PhD
 Rotin, Daniela - BSc, MSc, PhD
 Rubinstein, John - BSc, PhD, PhD
 Rubinstein, John L - BSc, PhD
 Segall, Jacqueline - BSc, PhD
 Sharpe, Simon J - BSc, PhD
 Sicheri, Frank - BSc, PhD
 Siu, Chi-Hung - BA, PhD
 Smibert, Craig - BSc, PhD
 Stagljar, Igor - BS, PhD
 Steipe, Boris - MD, PhD
 Trimble, William - BSc, PhD

Degree and Diploma Programs by Graduate Unit

Williams, David - BSc, MSc, PhD

Yip, Christopher - BSc, PhD

Zamble, Deborah - BSc, PhD

Members Emeriti

Anwar, Rashid - BSc, MSc, PhD

Gurd, James - BA, PhD

Lane, Byron - BA, PhD

Marks, Alexander - 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, FRSC

Associate Members

Julien, Jean-Philippe - PhD

Kahr, Walter - MD

Lee, Warren - MD, PhD

Mennella, Vito - PhD

Muise, Aleixo - MD

Watts, Joel - PhD

Biomedical Engineering

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Biomedical Engineering

MASc	<i>Fields:</i> Neural/Sensory Systems and Rehabilitation Biomaterials, Tissue Engineering and Regenerative Medicine Nanotechnology, Molecular Imaging and Systems Biology Engineering in a Clinical Setting
PhD	<i>Fields:</i> Neural/Sensory Systems and Rehabilitation Biomaterials, Tissue Engineering and Regenerative Medicine Nanotechnology, Molecular Imaging and Systems Biology Engineering in a Clinical Setting Clinical Engineering

Clinical Engineering

MHSc

Collaborative Programs

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

- Addiction Studies**
 - Biomedical Engineering, MASc, PhD
- Cardiovascular Sciences**
 - Biomedical Engineering, MASc, PhD
 - Clinical Engineering, MHSc
- Developmental Biology**
 - Biomedical Engineering, MASc, PhD
 - Clinical Engineering, MHSc
- Genome Biology and Bioinformatics**
 - Biomedical Engineering, PhD
- Health Care, Technology, and Place**
 - Biomedical Engineering, PhD
- Human Development**
 - Biomedical Engineering, PhD
- Musculoskeletal Sciences**
 - Biomedical Engineering, MASc, PhD
- Neuroscience**
 - Biomedical Engineering, MASc, PhD
- 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 **MASc**, **MHSc**, or **PhD** programs 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 biological 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.

See the list above for research fields in the Biomedical Engineering program.

IBBME also offers an **MHSc** in Clinical Engineering, described below.

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

IBBME 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

The MASc program is offered in the fields of 1) Neural/Sensory Systems and Rehabilitation; 2) Biomaterials, Tissue Engineering and Regenerative Medicine; 3) Nanotechnology, Molecular Imaging and Systems Biology; and 4) Engineering in a Clinical Setting.

Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IBBME's additional admission requirements stated below.
- A bachelor's degree in dentistry, engineering, medicine, or one of the physical or biological sciences from a recognized university with a minimum academic standing of A- in the final two years of study.

Program Requirements

- The program normally comprises at least 2.0 full-course equivalents (FCEs), one of which must be BME 1450H *Bioengineering Science*, and an appropriate life science or engineering course. Engineering and physical science students must take a life science course, such as JPB 1022H (or an equivalent); life science students must take an engineering or physical science course, such as JPB 1055H (or an equivalent).
- Students participate in two seminar courses: either BME 1010H or BME 1011H *Graduate Seminar* series, and JDE 1000H *Ethics in Research*.
- Health and safety training workshops.
- Successful completion of a research thesis in at least one of the biomedical engineering research fields: 1) Neural/Sensory Systems and Rehabilitation; 2) Biomaterials, Tissue Engineering and Regenerative Medicine; 3) Nanotechnology, Molecular Imaging and Systems Biology; or 4) Engineering in a Clinical Setting.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Doctor of Philosophy

The PhD program is offered in the fields of 1) Neural/Sensory Systems and Rehabilitation; 2) Biomaterials, Tissue Engineering and Regenerative Medicine; 3) Nanotechnology, Molecular Imaging and Systems Biology; 4) Engineering in a Clinical Setting; and 5) Clinical Engineering*.

Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IBBME's additional admission requirements stated below.
- A master's degree in dentistry, engineering, medicine, or one of the physical or biological sciences. Applicants to the PhD in the field of Clinical Engineering must have an undergraduate degree in engineering.
- Highly qualified master's students (MHSc students in Clinical Engineering or MASc students in any field) may be considered for transfer into the PhD program in any of the five fields. Clinical Engineering MHSc students must complete 3.0 full-course equivalents (FCEs) within the MHSc curriculum.
- Direct admission with a bachelor's degree may be considered in exceptional cases.

Program Requirements

All Fields

- Normally, at least 1.0 full-course equivalent (FCE) and successful completion of a thesis, representing an original investigation in biomedical engineering. Students who transfer without completing a master's degree in biomedical engineering must complete the total course requirements for both degrees (4.0 FCEs for the master's level plus 1.0 FCE for the PhD level, for a total of 5.0 FCEs). Engineering and physical science students are required to take a life science course, such as JPB 1022H (or an equivalent); life science students are required to take a physical science course, such as JPB 1055H (or an equivalent).
- 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.
- Two seminar courses: BME 1010H or BME 1011H *Graduate Seminar* series, and JDE 1000H *Ethics in Research*.
- Health and safety training workshops.
- Students are also expected to take BME 1450H *Bioengineering Science* and pursue a thesis topic relevant to at least one of the following Biomedical Engineering research fields: 1) Neural/Sensory Systems and Rehabilitation; 2) Biomaterials, Tissue Engineering and Regenerative Medicine; 3) Nanotechnology, Molecular Imaging and Systems

Degree and Diploma Programs by Graduate Unit

Biology; 4) Engineering in a Clinical Setting; or 5) Clinical Engineering*.

Clinical Engineering Field

*Complete the following requirements in addition to those listed above:

- If a student does not have a formal degree in clinical engineering, 0.5 FCE from one of the IBBME clinical engineering courses (BME 1405H, BME 1439H, BME 1436H, or BME 4444H) is required. A student who possesses protracted professional engineering experience (five or more years) will be exempt from this requirement.
- Students in the Clinical Engineering field must (1) conduct their research in a clinical environment and (2) be co-supervised by both engineering and health science faculty. The primary supervisor must be IBBME-appointed; however, the co-supervisor could be from a clinical unit other than IBBME but must be appointed to SGS.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Clinical Engineering

Master of Health Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IBBME's additional admission requirements stated below.
- Selected students who hold a bachelor of applied science degree in engineering.

Program Requirements

- Normally 4.0 full-course equivalents (FCEs), including BME 1405H, BME 1436H, BME 1439H, and one elective, relevant to a student's area of research. All students are required to take BME 1450H, a life sciences course, such as JPB 1022H (or an equivalent), and 1.0 FCE of internships (completed over two or three separate internships) in health care facilities, the medical device industry, or health care consulting firms.
- 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

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 1462H	Biological Image Analysis
BME 1464H	Orthopaedic Biomechanics and Mechanics of Biomaterials
BME 1471H	Rehabilitation Engineering
BME 1472H	Fundamentals of Neuromodulation Technology and Clinical Applications
BME 1473H	Acquisition and Processing of Bioelectric Signals
BME 1480H	Experimental Design and Multivariate Analysis in Bioengineering
BME 4444Y	Practice in Clinical Engineering
HAD 5010H	Canada's Health System and Health Policy: Part I
JCB 1349H	Molecular Assemblies: Structure/Function/Properties
JEB 1365H	Ultrasound: Theory and Applications in Biology and Medicine
JEB 1433H	Medical Imaging

Degree and Diploma Programs by Graduate Unit

JEB 1444H	Neural Engineering
JEB 1447H	Sensory Communications
JEB 1451H	Neural Bioelectricity
JMB 1050H	Biological and Bio-inspired Materials
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
MBP 1022H	Advanced Cell Biology for Physical Scientists
PSL 1052H	Fundamentals of Ion Channel Function
ZOO 1002H	Advanced Research and Reading Course

Graduate Faculty

Full Members

Andrysek, Jan - BSc, MSc, PhD
 Aubin, Jane - BSc, PhD
 Audet, Julie - MSc, PhD (**Graduate Coordinator, Graduate Programs**)
 Bardakjian, Berj - BSc, BEd, MSc, PhD
 Benhabib, Bensiyon - BSc, MSc, PhD
 Biddiss, Elaine Alisa - MSc, PhD
 Bogoch, Earl - BA, MSc, MD
 Carlen, Peter - MD
 Chan, Warren - BSc, PhD
 Chau, Tom - PhD
 Cheng, Hai-Ling - BSc, MS, PhD
 Cheung, Angela - BA, MD, PhD
 Cheyne, Douglas - BSc, MA, PhD
 Cvitkovitch, Dennis - BSc, MSc, PhD
 Davies, John - BSc, BDSc, PhD, DSc
 Drake, James - BSE, MSc, MBCHB
 Easty, Anthony - PhD
 Eizenman, Moshe - BSc, MSc, PhD
 Fernandez-Gonzalez, Rodrigo - BSc, PhD
 Fernie, Geoffrey - BSc, PhD
 Finer, Yoav - MSc, MSc, DMD, PhD
 Frecker, Richard - BSc, MD, PhD
 Ginsberg, Howard - BSc, LRCP, MD, PhD
 Grynpas, Marc - MSc, PhD
 Johnston, K. Wayne - MD
 Kandel, Rita - MD
 Keating, Armand - BSc, MD
 Kelley, Shana - BA, PhD
 Keshavjee, Shafique - BA, MSc, LMCC, MD
 Kumacheva, Eugenia - MSc, PhD
 Levi, Ofer - BSc, MSc, PhD

Li, Ren-Ke - MSc, MSc, MD, PhD
 Maki, Brian - BSc, MSc, PhD, PEng
 Mandelis, Andreas - BSc, MA, MSc, PhD
 McGuigan, Alison - MEng, PhD
 Mihailidis, Alex - BSc, MSc, PhD
 Nachman, Adrian - BSc, MA, PhD
 Naguib, Hani - BSc, ME, PhD, PEng
 Norwich, Kenneth - MSc, PhD
 Popovic, Milos - DiplIng, PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Pritzker, Kenneth - BSc, MD
 Radisic, Milica - BEng, PhD, CRC
 Reid, Denise - BSc(OT), MEd, PhD
 Rocheleau, Jonathan - BSc, PhD
 Ryu, William - AB, PhD
 Santerre, Paul - BSc, MSc, PhD
 Schemitsch, Emil - MD
 Schweizer, Tom - BA, MSc, DPhil
 Sefton, Michael - BSc, ScD
 Shoichet, Molly - PhD
 Silverman, Melvin - BSc, MDCH
 Simmons, Craig - BSc, MSc, PhD
 Skinner, Frances - PhD
 Slutsky, Arthur - BSc, MSc, MD
 Sone, Eli - BSc, MS, PhD
 Stanford, William - BA, PhD
 Sun, Yu - BS, MS, MS, PhD
 Thompson, Michael - BSc, PhD, DSc, FRSC
 Thorpe, Steven - BSc, MSc, PhD
 Trbovich, Patricia L - PhD
 Truong, Kien (Kevin) - BSc, PhD
 van Lieshout, Pascal - MA, MA, PhD
 Waddell, Thomas - MSc, LMCC, MD, PhD
 Wang, Paul - BSc, PhD
 Wheeler, Aaron - BS, PhD
 Whyne, Cari - BSc, PhD
 Wong, Willy - BSc, MSc, PhD
 Yee, Albert - MSc, LMCC, MD
 Yip, Christopher - BSc, PhD (**Director**)
 Yoo, Paul - BSc, MSc, PhD
 You, Lidan - BS, MS, PhD
 Young, Edmond - BSc, MSc, PhD
 Zandstra, Peter - BEng, PhD, CRC
 Zariffa, Jose - DrEng
 Zilman, Anton - BSc, MSc, PhD

Members Emeriti

Cobbald, Richard - PhD
 Dolan, Alf - BSc, MSc
 Joy, Michael - BSc, MSc, PhD
 Kunov, Hans - MSc, PhD
 Pilliar, Robert - BSc, PhD
 Watson, Philip - DDS, BDSc, MScD

Associate Members

Ganss, Bernhard - BSc, MSc, DrRerNat
 Howarth, David - LMCC, MD
 Islam, Mohammad - PhD

Degree and Diploma Programs by Graduate Unit

John, Michael Sasha - MSD
Kilkenny Rocheleau, Dawn - PhD
Kushki, Azadeh - DrEng
Lapinsky, Stephen - MSc, MBCHB
McConville, Kristiina - PhD
Steele, Catriona - BA, MHSc, PhD
Steinman, David - BAsC, MASc, PhD
Vasconcelos, Sara
Viswanathan, Sowmya - DPhil
Werner, Carsten - DChem
Yadollahi, Azadeh - DrEng

Cell and Systems Biology

Faculty Affiliation

Arts and Science

Degree Programs

Cell and Systems Biology

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) 978-8532

Department of Cell and Systems Biology
University of Toronto
Ramsay Wright Building
Room 424, 25 Harbord Street
Toronto, Ontario M5S 3G5
Canada

Degree Programs Cell and Systems Biology

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Cell and Systems Biology's additional admission requirements stated below.
- 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 0.5 full-course equivalent (FCE) of approved graduate coursework.
- Complete the CSB 1010Y *MSc Seminar Series* (credit only, minimum 24 seminars 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Cell and Systems Biology's additional admission requirements stated below.
- PhD degree applicants are generally accepted by one of three routes:
 1. following completion of an **MSc degree** from a recognized university, with a minimum A- average in all work completed in the master's program
 2. by **transferring from the University of Toronto MSc program**: students may reclassify from the MSc program after 12 months of study
 3. 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 1.0 full-course equivalent (FCE) of approved graduate coursework.

Degree and Diploma Programs by Graduate Unit

- Complete the CSB 1011Y *PhD Seminar Series* (credit only, minimum 24 seminars 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
 3. in-camera questioning by a PhD proposal examination committee immediately following the public presentation

Students must successfully complete their proposal/transfer examination between 13 and 20 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 towards their PhD course requirements.

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 the 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 1010Y ⁰	MSc Seminar Series
CSB 1011Y ⁰	PhD Seminar Series
CSB 1018H	Advanced Microscopy and Imaging
CSB 1020H	Topics in Cell and Systems Biology
CSB 1025H	Methods in Genomics and Proteomics
CSB 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

AbouHaidar, Mounir - DipdESup, BSc, PhD, CAP
 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
 Campbell, Malcolm - DPhil
 Chang, Belinda - AB, PhD, CRC
 Cheng, Mary - MSc, PhD
 Christendat, Dinesh - PhD
 Coleman, John - BSc, PhD
 Desveaux, Darrell - BSc, MSc, PhD, CRC
 Edwards, Elizabeth - BEng, PhD
 Ensminger, Ingo - PhD
 Erb, Suzanne - BSc, MA, PhD
 Espie, George - PhD
 Fulthorpe, Roberta - BSc, MSc, PhD
 Gazzarrini, Sonia - BA, PhD
 Gerlai, Robert - MSc, PhD
 Godt, Dorothea - MS, DrRerNat
 Goring, Daphne - PhD, CRC
 Guttman, David - BS, PhD, CRC
 Harris, Tony - BSc, PhD, CRC
 Harrison, Rene - BS, MS, PhD
 Hasenkampf, Clare - BSc, MS, PhD
 Holmes, Melissa - BA, MA, PhD
 Horgen, Paul - BA, MS, PhD
 Ito Lee, Rutsuko - BA, PhD
 Kanelis, Voula - PhD
 Kohn, Linda - BS, PhD
 Kronzucker, Herbert - PhD
 Lange, Angela - BSc, 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, CRC
 McGowan, Patrick - BSc, MA, PhD
 McMillen, David - BSc, MS, PhD
 Milstein, Josh - BS, PhD
 Mitchell, Jennifer - DSc
 Monks, Ashley - BSc, MA, PhD
 Moses, Alan - BA, PhD
 Nambara, Eiji - MS, PhD
 Nash, Joanne - BS, MSc, PhD
 O'Day, Danton - BSc, MSc, PhD
 Orchard, Ian - BSc, PhD, DSc

Degree and Diploma Programs by Graduate Unit

Ouellette, Francis - MSc
Peever, John - MSc, PhD
Peisajovich, Sergio - DSc
Plotnikov, Sergey - DSc
Provar, Nicholas - PhD
Reid, Stephen - BS, PhD
Richards, Blake - BS, MS, PhD
Riggs, Charles - BS, PhD
Ringuette, Maurice - BSc, PhD
Romans, Patricia - BSc, MSc, PhD
Ryu, William - AB, PhD
Smith, J.J. Berry - BA, MA, PhD
Sokolowski, Marla - BSc, PhD, CRC
Stephenson, Richard - BSc, PhD
Stewart, Bryan - BSc, MS, DPhil
Tepass, Ulrich - MSc, PhD
Terebiznik, Mauricio - BSc, PhD
Thiele, Tod - BS, PhD
Tobe, Stephen - BSc, MSc, PhD, FRSC
Treanor, Bebhinn Lucy - BSc, PhD
Tropepe, Vince - BSc, PhD (**Chair and Graduate Chair**)
Vanlerberghe, Greg - BSc, MSc, PhD
Varmuza, Susannah - BSc, MSc, PhD
Westwood, J. Timothy - PhD
Winklbauer, Rudolf - MSc, PhD
Woodin, Melanie - MSc, PhD
Yeomans, John - BA, PhD
Yoshioka, Keiko - PhD
Zhao, Rongmin - BSc, PhD
Zilman, Anton - BSc, MSc, PhD
Zovkic, Iva - BA, MA, PhD

Associate Members

Muthuswamy, Senthil - PhD
Revers, Leigh - PhD
Stuerzlinger, Wolfgang - MSc
Subramaniam, Rajagopal - PhD
Wang, Pauline - DSc

Chemical Engineering and Applied Chemistry

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Chemical Engineering and Applied Chemistry

MASc	<i>Emphasis:</i> Sustainable Energy
MEng	<i>Emphases:</i> Advanced Water Technologies and Process Design Sustainable Energy
PhD	<i>Emphasis:</i> Sustainable Energy

Combined Degree Programs

Environmental Chemistry (Specialist), Honours BSc /
Chemical Engineering and Applied Chemistry, MEng
Environmental Chemistry (Specialist Co-op), Honours BSc /
Chemical Engineering and Applied Chemistry, MEng

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. **Cardiovascular Sciences**
 - Chemical Engineering and Applied Chemistry, MASc, PhD
3. **Environmental Engineering**
 - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD
4. **Environmental Studies**
 - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD
5. **Genome Biology and Bioinformatics**
 - Chemical Engineering and Applied Chemistry, PhD
6. **Global Health**
 - 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

Degree and Diploma Programs by Graduate Unit

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 programs and enrolment procedures appears on the website.

Contact and Address

Web: www.chem-eng.utoronto.ca

Email:

Admissions: admissgrad.chemeng@utoronto.ca

General: gradassist.chemeng@utoronto.ca

Telephone: (416) 946-3987

Fax: (416) 978-8605

Department of Chemical Engineering and Applied Chemistry
University of Toronto
Room 212, Wallberg Building
200 College Street
Toronto, Ontario M5S 3E5
Canada

Degree Programs Chemical Engineering and Applied Chemistry

Master of Applied Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

Chemical Engineering and Applied Chemistry's additional admission requirements stated below.

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).
- Students in the MASc program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Engineering

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Chemical Engineering and Applied Chemistry's additional admission requirements stated below.

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. At the discretion of the supervisor, a second reviewer and/or oral defence may be requested for students who plan to enter the doctoral program.
- The MEng program can be completed on a full-time, extended full-time, or part-time basis.
 - Full-time option: students normally complete the requirements in three sessions (one year).
 - Extended full-time option: students are expected to complete the requirements in six sessions (two

years) and are limited to six half courses per year and three half courses per session.

- Part-time option: students are limited to four half courses per year and two half courses per session. Students normally complete the requirements in nine sessions (three years). This program is intended primarily for engineers in full-time professional practice.
- Students in the MEng program have the option of completing an emphasis in Advanced Water Technologies and Process Design or Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S)**;

9 sessions part-time

Time Limit

3 years full-time and extended full-time;

6 years part-time

**** Students may begin the program at different times.**

Combined Degree Program: Environmental Chemistry (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

For full details, please see the Environmental Chemistry (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

For full details, please see the Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Chemical Engineering and Applied Chemistry's additional admission requirements stated below.

- 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-around 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 with a master's degree from outside Canada or the United States in their country of residence may be asked to register in the MASc program and follow entry route 2.

Flexible-Time PhD Option

- 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 option must demonstrate that they are actively engaged in professional activities related to their proposed program of study.

Program Requirements

- Thesis on a research topic.
- **Students with a 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.
- Students in the flexible-time PhD program will be subject to the same requirements as students in the full-time program.
- 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. Normally, PhD students are not allowed to take a 500-level course for credit towards the degree program. Students are also required to complete eight sessions of the seminar: attending CHE 300xH series and, if not already completed, CHE 2222H and JDE 1000H. Students are required to take a graduate student seminar: attending course two times in their program, once in the first year and once in the third year of study.
- Within 9 to 12 months of starting the PhD program, students must pass a qualifying examination—

Degree and Diploma Programs by Graduate Unit

flexible-time PhD students must complete this requirement within 16 months of the start of their program. Students normally remain in residence (full-time, on campus) until the departmental recommendation for the Doctoral Final Oral Examination is made, unless special permission to do so has otherwise been granted by the departmental Graduate Studies Committee.

- Students in the PhD program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

4 years full-time; 5 years direct-entry; 5 years transfer-from-master's, 6 years flexible-time

Time Limit

6 years full-time; 7 years direct-entry; 7 years transfer-from-master's

Emphasis: Advanced Water Technologies and Process Design

Master of Engineering (MEng) students must successfully complete four core courses (2.0 full-course equivalents [FCEs]) and one specialization course (0.5 FCE), which are counted toward the total 5.0 FCEs required for the MEng program.

- Four core courses (2.0 FCEs):
 1. CHE 1150H *Industrial Water Treatment*
 2. CIV 1319H *Chemistry and Analysis of Water and Waste*
 3. STA 1004H *Introduction to Experimental Design*, and
 4. at least one of the following (either of the other two can count as the specialization course):
CIV 1308H *Physical/Chemical Treatment Processes*
CIV 541H *Environmental Biotechnology*
CIV 1311H *Advanced and Sustainable Drinking Water Treatment*
- One specialization course selected from the following (0.5 FCE):
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*
 - CIV 1303H *Water Resources Systems Modeling*
 - CHE 565H *Aqueous Process Engineering*
 - CHE 1213H *Corrosion*
 - CHE 1430H *Hydrometallurgy Theory and Practice*
 - JNC 2503H *Environmental Pathways*, or one of the remaining courses from item 4.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, the student will receive a Letter of Completion.

Degree and Diploma Programs by Graduate Unit

Emphasis: Sustainable Energy

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H,
CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H,
CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H,
ECE 533H, ECE 1055H, ECE 1057H, ECE 1085H, ECE 1086H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,
MSE 558H, MSE 1022H, MSE 1028H

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 an 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 1100H	Fundamentals of Chemical Engineering
CHE 1107H	Applied Mathematics

CHE 1141H	Advanced Chemical Reaction Engineering
CHE 1142H	Applied Chemical Thermodynamics
CHE 1143H	Transport Phenomena
CHE 1310H	Chemical Properties of Polymers
JTC 1134H	Applied Surface and Interface Science
JTC 1135H	Applied Surface Chemistry

Category B: Specialized Courses

APS 530H	Appropriate Technology and Design for Global Development
APS 1001H	Project Management
APS 1002H	Financial Engineering
APS 1003H	Professional Education and Instruction
APS 1004H	Human Resource Management: An Engineering Perspective
APS 1005H	Operations Research for Engineering Management
APS 1010H	Cognitive and Psychological Foundations of Effective Leadership
APS 1011H	Concepts and Application of Authentic Leadership
APS 1018H	History and Philosophy of Engineering
APS 1019H	Leadership in Project Management
APS 1020H	International Business for Engineers
APS 1026H	Positive Psychology for Engineers
APS 1027H	Engineering Presentations
APS 1029H	The Science of Emotional Intelligence and its Application to Leadership
APS 1030H	Engineering Careers—Theories and Strategies to Manage Your Career for the Future
APS 1088H	Entrepreneurship and Business for Engineers
APS 1201H	Topics in Engineering and Public Policy 500-level (undergraduate/graduate) Courses
APS 1420H	Technology, Engineering, and Global Development
APS 1501H	Leadership and Leading in Groups and Organizations
CHE 507H	Process Modelling and Simulation
CHE 553H	Electrochemistry
CHE 561H	Risk Based Safety Management

Degree and Diploma Programs by Graduate Unit

CHE 564H	Pulp and Paper Processes
CHE 565H	Aqueous Process Engineering
CHE 568H	Nuclear Engineering
CHE 575H	Mechanical Properties of Bio-Composites and Biomaterials
CHE 1053H	Electrochemistry
CHE 1118H	Industrial Catalysis
CHE 1123H	Liquid Biofuels
CHE 1125H	Modelling and Optimization of Chemical and Biomedical Networks
CHE 1134H	Advances in Bioengineering
CHE 1146H	Applied Transport Phenomena in Energy Systems
CHE 1147H	Data Mining in Engineering
CHE 1150H	Industrial Water Technology
CHE 1213H	Corrosion
CHE 1314H	The Structure and Properties of Fibrous Materials
CHE 1400H	Environmental Nuclear Science
CHE 1430H	Hydrometallurgy, Theory, and Practice (MEng only)
CHE 1431H	Environmental Auditing (MEng only)
CHE 1432H	Technical Aspects of Environmental Regulations (MEng only)
CHE 1433H	Air Dispersion Modelling
CHE 1434H	Six Sigma for Chemical Processes
CHE 1435H	Fundamentals of Aerosol Physics and Chemistry
CHE 1533H	Nuclear Chemical Engineering
CHE 1541H	Two-Phase Flow and Heat Transfer
JCB 1349H	Molecular Assemblies: Structure/Function/Properties
JCC 1313H	Environmental Microbiology
JCI 1321H	Wood Engineering
JCR 1000Y	An Interdisciplinary Approach to Addressing Global Challenges
JNC 2503H	Environmental Pathways
JTC 1331H	Biomaterials Science

Seminar Courses

CHE 2011H	Graduate Student Seminars (Credit/No Credit)
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CHE 300xH	Seminars in Chemical Engineering and Applied Chemistry (Credit/No Credit)
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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
 Allen, Christine - BSc, PhD, PhD, GlaxoSmithKline Chair in Pharmaceuticals and Drug Delivery
 Allen, D Grant - BASc, MSc, PhD (**Chair**)
 Audet, Julie - MSc, PhD
 Azimi, Gisele - BASc, MSc, PhD
 Bender, Timothy - PhD
 Chan, Arthur - BS, MSc, PhD
 Cheng, Yu-Ling - SB, PhD
 Chin, Cathy Ya Huei - BSc, MSc, PhD
 Chow, Chung-Wai - MD, PhD
 Cluett, William - BSc, PhD
 Cormack, Donald - BASc, MSc, PhD
 Coyle, Thomas - BS, BA, ScD
 Diamond, Miriam - MSc, MSc, PhD
 Diosady, Levente - BASc, MSc, PhD
 Edwards, Aled - BSc, PhD
 Edwards, Elizabeth - BEng, PhD
 Evans, Gregory - PhD
 Farnood, Ramin - BASc, MSc, PhD
 Fulthorpe, Roberta - BSc, MSc, PhD
 Iakounine, Alexandre - MSc, ScD
 Jia, Charles - BEng, MEng, PhD (**Associate Chair and Graduate Coordinator**)
 Kawaji, Masahiro - BASc, MSc, PhD
 Kirk, Donald - BASc, MSc, PhD
 Kortschot, Mark - BASc, MSc, PhD
 Kraatz, Heinz-Bernhard - BA, MC, PhD
 Kumacheva, Eugenia - MSc, PhD
 Lawryshyn, Yuri - Diplng, BASc, MSc, MBA, PhD
 Mahadevan, Radhakrishnan - BTech, PhD
 Master, Emma - BSc, PhD
 McGuigan, Alison - MEng, PhD
 Mims, Charles - PhD
 Newman, Roger Charles - BA, PhD, DSc
 Papangelakis, Vladimiro - MEng, PhD
 Radisic, Milica - BEng, PhD, CRC
 Ramchandran, Arun - PhD
 Reeve, Douglas - BSc, MSc, PhD
 Sain, Mohini - PhD
 Savchenko, Alexei - MS, PhD
 Saville, Bradley - BSc, PhD
 Seferos, Dwight - BCh, DChem
 Sefton, Michael - BASc, ScD
 Shoichet, Molly - PhD

Degree and Diploma Programs by Graduate Unit

Thomson, Murray - BSc, PhD
Thorpe, Steven - BAsC, MASc, PhD
Tran, Hoc Nghia (Honghi) - PhD
Wania, Frank - MPH, PhD
Winnik, Mitchell - BA, PhD
Yan, Ning - BSc, PhD, PEng
Yip, Christopher - BSc, PhD

Members Emeriti

Balke, Stephen - BEng, PhD
Boocock, David - BSc, PhD
Chaffey, Charles - BSc, PhD
Charles, Michael - BSc, MSc, PhD, FCIC
Foulkes, Frank - BAsC, MASc, PhD
James, David - BSc, MS, MA, PhD
Jervis, Robert - BA, MA, PhD, PEng, FCIC
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

Colcleugh, David - BAsC, MASc, PhD
Crooks, Gregory - BAsC, MEng
Gong, Sunling - BAsC, MASc, PhD
Grace, Thomas Michael - BS, PhD
Jones, Andrew Kevin - BSE, MASc, PhD
Krause, Eberhard - MASc, PhD
Marcuson, Samuel Walton - MS
Rizvi, Syed - BS, MEng, MS, PhD
Sayad, Saed - MD, PhD
Shenassa, Reyhaneh - BSc, MASc, PhD
Sinukoff, Randall - BAsC, MASc
Southwood, Jeanette - BSChE, MS
Stanford, William - BA, PhD
Tabe-Mohammadi, Abdulreza - BAsC, MASc, PhD
Treiber, Steve - MASc, PhD
Wolfaardt, Gideon - BSc, MSc, PhD

Chemistry

Faculty Affiliation

Arts and Science

Degree Programs

Chemistry

MSc

PhD

Collaborative Programs

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

1. **Biomedical Engineering**
 - Chemistry, MSc, PhD
2. **Environmental Studies**
 - Chemistry, MSc, PhD
3. **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
Telephone: (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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.

Degree and Diploma Programs by Graduate Unit

- 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Chemistry's additional admission requirements stated below.
- 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.
- Transfer to the PhD program may be considered during the first year in the master's program.

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

The interdisciplinary field allows combinations within the other fields, or with other disciplines. Each field requires a minimum of 2.0 to 3.0 full-course equivalents (FCEs) from approved graduate courses, depending on the field of study and the student's academic background. The number of courses required will be determined in consultation with the supervisor and Graduate Studies Committee. Students who have completed the master's program may be considered for a

Degree and Diploma Programs by Graduate Unit

course reduction of up to 1.0 FCE in the PhD program.
Specific requirements for each field follow:

Analytical Chemistry

- 2.0 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 30 Analytical Seminar Plus (ASP) points.

Environmental Chemistry

- At least 2.0 FCEs to include CHM 1401H, at least one other course in environmental chemistry, 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 or CHM 1266H) 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 1068H (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 one 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 three seminars (a literature talk in Year 1 and presentations on the original research in Years 2 and 4) 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.

Program Length

4 to 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	Biosensors 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
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 1410H	Analytical Environmental Chemistry
CHM 2014H	Research in Analytical Chemistry
BME 1452H	Signal Processing for Bioengineering
CHE 1144H	Separation Processes

Environmental Chemistry

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)
CHM 2534H	Research in Environmental Chemistry
EES 1105H	Soil Contamination Chemistry

Inorganic Chemistry

CHM 1202H	Selected Current Directions in Inorganic Chemistry
CHM 1204H	Organometallic Chemistry
CHM 1205H	Inorganic Reaction Mechanisms

Degree and Diploma Programs by Graduate Unit

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 1056H	Techniques for Studying the Chemical, Structural, and Dynamic Properties of Biomolecules
CHM 1057H	Topics in Synthetic Organic Chemistry
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 1443H	Intermediate Quantum Mechanics

Degree and Diploma Programs by Graduate Unit

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 1482H	Laser Spectroscopy and Photophysics
CHM 1486H	Modern Molecular Spectroscopy
CHM 1490Y	Physical Chemistry Seminar (Credit/No Credit)
CHM 2024H	Research in Physical Chemistry
IOS 1500H	Selected Topics in Optics Research

Polymers and Materials Chemistry

CHM 1206H	Solid State Chemistry: Structure-Property Relations
CHM 1300H	Polymer Chemistry
CHM 1301H	Organic and Inorganic Polymer Synthesis
CHM 1302H	Physical Chemistry of Polymers
CHM 1303H	Solids as Advanced Polymer Materials
CHM 1304H	Organic Materials Chemistry
CHM 1310H	Polymer 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 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, GlaxoSmithKline
 Chair in Pharmaceuticals and Drug Delivery
 Batey, Robert Alexander - BA, PhD (**Chair and Graduate Chair**)
 Brumer, Paul - BSc, PhD
 Chan, Warren - BSc, PhD
 Chin, Jik - MS, PhD
 Dhirani, Al-Amin - MSc, PhD
 Donaldson, D. James - PhD
 Fekl, Ulrich - MSc, PhD
 Georges, Michael - BS, PhD
 Goh, M Cynthia - PhD
 Gunning, Patrick - BS, PhD
 Jockusch, Rebecca - BA, PhD
 Kanelis, Voula - PhD
 Kapral, Raymond - BSc, PhD
 Kay, Lewis - PhD
 Kelley, Shana - BA, PhD
 Kerman, Kagan - BScPhm, MSc, ScD
 Kluger, Ronald - AB, AM, PhD
 Kraatz, Heinz-Bernhard - BA, MC, PhD
 Krull, Ulrich - BSc, MSc, PhD
 Kumacheva, Eugenia - MSc, PhD
 Lautens, Mark - BSc, PhD
 Mabury, Scott - BS, PhD
 Macdonald, Peter - BS, MS, PhD
 McMillen, David - BSc, MS, PhD
 Miller, R J Dwayne - BSc, PhD
 Morris, Robert - BSc, PhD, Fellow NATO
 Murphy, Jennifer - BCh, DChem
 Nitz, Mark - BSc, PhD
 Ozin, Geoffrey - BSc, PhD
 Polanyi, John - MSc, PhD, DSc, FRSC, FRS
 Prosser, Scott - BSc, MSc, DPhil
 Schofield, Jeremy - PhD
 Scholes, Greg - MSc, PhD
 Seferos, Dwight - BCh, DChem
 Segal, Dvira - BSc, DSc
 Shin, Jumi - AB, DPhil
 Shoichet, Molly - PhD
 Simpson, Andre - BSc, PhD
 Simpson, Myrna - BS, DPhil
 Song, Datong - BSc, PhD
 Stephan, Douglas - BSc, PhD

Degree and Diploma Programs by Graduate Unit

Taylor, Mark - BSc, DSc
Thompson, Michael - BSc, PhD, DSc, FRSC
Walker, Gilbert - BCh, PhD
Wania, Frank - MPH, PhD
Wheeler, Aaron - BS, PhD
Whittington, Stuart - BA, MA, PhD
Winnik, Mitchell - BA, PhD
Woolley, G Andrew - PhD
Yudin, Andrei - MSc, MSc, PhD
Zamble, Deborah - BSc, PhD
Zhang, Xiaoan - MS, PhD

Members Emeriti

Bersohn, Malcolm - BSc, MS, PhD
Harrison, Alexander - MSc, PhD
Jones, J Bryan - BSc, PhD, DPhil
McLean, Stewart - BSc, PhD
Poe, Anthony - DIC, BA, BSc, MA, MA, PhD

Associate Members

Baranov, Vladimir - PhD
Manners, Ian - BSc, PhD
Muir, Derek - BSc, MSc, PhD
Reiner, Eric - BSc, MSc, PhD
Tanner, Scott - BSc, PhD

Cinema Studies

Faculty Affiliation

Arts and Science

Degree Programs

Cinema Studies

MA

PhD

Collaborative Programs

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

- **Diaspora and Transnational Studies**
 - Cinema Studies, MA
- **Sexual Diversity Studies**
 - Cinema Studies, MA
- **Women and Gender Studies**
 - Cinema Studies, MA

Overview

The Cinema Studies Institute offers a program leading to the **Master of Arts** and **Doctor of Philosophy** degrees in Cinema Studies. Our faculty have expertise in several areas, including film and media history; film and media theory; film and media analysis; and film, media, and cultural practices. The course-based, one-year MA program offers students the option of a professional internship or a major research paper.

Launched in September 2013, the Doctor of Philosophy program in Cinema Studies addresses the changing role of moving image media within global culture. Past and present configurations of cinema are studied through a constellation of theoretical, textual, social, and historical rubrics. The core curricular offerings engage with debates and questions that persist within the scholarship while also examining how the field contends with emerging disciplinary issues and intermedial formats today and at other historical junctures. Throughout, the synthesis of history and theory, textual analysis, and cultural study is emphasized.

Contact and Address

Web: sites.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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Cinema Studies Institute's additional admission requirements stated below.
- Successful completion of an appropriate four-year University of Toronto bachelor's degree, or its equivalent from a recognized university.
- 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 or pursuing an 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 1100H, CIN 1101H, and CIN 1102H.
 - 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

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Cinema Studies Institute's additional admission requirements stated below.
- Letter of intent outlining the academic goals the applicant wishes to pursue in the program.
- Three letters of recommendation.
- A writing sample.
- Transcripts from all post-secondary institutions.

Program Requirements

- The student's program of study must be approved by the Cinema Studies Institute (CSI).
- The following 4.0 full-course equivalents (FCE) are required:
 - 1.0 FCE required courses (CIN 2100H *History and Historiography of Cinematic Media* and CIN 2101H *Pressures on the Cinematic*); students who have already taken these courses, or their equivalent, will be required to enrol in alternate course selections, with the Graduate Coordinator's approval.
 - 1.5 FCEs offered in cinema studies.
 - 1.0 FCE elective courses offered in cinema studies or by other graduate units and chosen in consultation with the student's faculty advisor.
 - 0.5 FCE (CIN 2999H), a credit/non-credit course, requiring participation in the *Research Seminar in Cinema Studies*.
- All coursework is normally completed by December of Year 2 of study, except for CIN 2999H which may extend beyond that date.
- Completion of two comprehensive examinations: the General Examination and the Special Field Examination. Students generally undertake the comprehensive examinations after the completion of coursework in the second year of study.
 - The General Examination has only a written component. This exam is set by the program faculty. Students are permitted two attempts to pass the General Examination.
 - The Special Field Examination has two components: a written examination and an oral examination. These exams are scheduled by the student's supervisor and committee

Degree and Diploma Programs by Graduate Unit

members. Examinations are marked on a pass/fail basis. (Should the committee deem their work exceptional, students may pass with distinction.) Students are allowed two attempts to pass the written examination and two attempts to pass the oral examination.

- Students must have completed all requirements for the degree, exclusive of thesis research, by the end of Year 3 of study in order to remain in good academic standing and in order to achieve candidacy.
- Completion of a PhD dissertation based on original research conducted by the candidate on an approved topic in cinema studies. The dissertation proposal should be approved by the supervisor no later than May of Year 2 of PhD studies. Each student is required to meet at least annually with a supervisory committee, which includes the supervisor and two faculty members, to review academic progress, and to consult about future directions.
- The thesis must be presented within six years of first enrolment in the PhD program. Successful defence at the SGS Doctoral Final Oral Examination.

Program Length

4 years full-time

Time Limit

6 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.

MA Core Courses

CIN 1100H	The Textual Object
CIN 1101H	Theories and Practices of Cinema
CIN 1102H	Key Developments in Film History

Plus one of:

CIN 1006Y	Major Research Paper in Cinema Studies
CIN 1007Y	Internship in Cinema Studies

PhD Core Courses

CIN 2100H	History and Historiography of Cinematic Media
CIN 2101H	Pressures on the Cinematic
CIN 2999H	Research Seminar in Cinema Studies (Credit/No Credit)

Degree and Diploma Programs by Graduate Unit

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
CIN 1008H	Independent Research and Reading in Cinema Studies
CIN 1010H	The Textuality of the Cinematic Body
CIN 1011H	Colour and the Moving Image
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 the Viewing Subject
CIN 6803H	Intertextuality in Feminist Cinema: The Counter-Cinematic Impulse
JFF 1100H	Surrealism and French Cinema

Leonard, Garry - BA, MA, PhD
Maurice, Alice - BA, DPhil
Meng, Yue - BA, MA, MA, PhD
Most, Andrea - BA, MA, PhD
Price, Brian - PhD
Ricco, John - BA, MA, PhD
Sammond, Nicholas - BA, MA, PhD
Tcheuyap, Alexie - BA, MA, PhD
Walcott, Rinaldo - BA, MA, PhD

Member Emeriti

Armatage, Kay - BA, MA, PhD

Associate Members

Cahill, James - AB, MA, MA, PhD
Sutherland, Meghan - PhD
Testa, Bart - BA, MA

Graduate Faculty

Full Members

Ackerman, Alan - BA, MA, PhD
Ambros, Veronika - MA, PhD
Bai, Ruoyun - BA, MA, PhD
Barton, Bruce - BA, MA, PhD
Baumann, Shyon - BA, MA, PhD
Boler, Megan - BA, PhD
Brown, Elspeth - MA, PhD
Budde, Antje - PhD
Cazdyn, Eric - BA, MA, PhD
Columpar, Corinn - BA, PhD (**Director, Cinema Studies Institute**)
Fenner, Angelica - BA, MA, PhD (**Graduate Coordinator**)
Jagoe, Eva-Lynn - BA, MA, PhD
Jain, Kajri - PhD
Johnson, Stephen - BA, MA, PhD
Kaplan, Louis - AB, AM, DPhil
Keil, Charles - BA, MA, PhD
Legge, Elizabeth MM - BA, BA, MA, PhD

Civil Engineering

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Civil Engineering

MASc	<i>Emphasis:</i> Sustainable Energy
MEng	<i>Emphases:</i> Advanced Water Technologies and Process Design Sustainable Energy
PhD	<i>Emphasis:</i> Sustainable Energy

Cities Engineering and Management

MEngCEM

Combined Degree Programs

Environmental Biology (Specialist), Honours BSc / Civil Engineering, MEng

Environmental Biology (Specialist Co-op), Honours BSc / Civil Engineering, MEng

Environmental Chemistry (Specialist), Honours BSc / Civil Engineering, MEng

Environmental Chemistry (Specialist Co-op), Honours BSc / Civil Engineering, MEng

Environmental Geoscience (Specialist), Honours BSc / Civil Engineering, MEng

Environmental Geoscience (Specialist Co-op), Honours BSc / Civil Engineering, MEng

Environmental Physics (Specialist), Honours BSc / Civil Engineering, MEng

Environmental Physics (Specialist Co-op), Honours BSc / Civil Engineering, MEng

Collaborative Programs

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

1. **Engineering Education**
 - Civil Engineering, MASc, PhD
2. **Environmental Engineering**
 - Civil Engineering, MASc, MEng, PhD

Overview

The Department of Civil Engineering offers a graduate program in Civil Engineering leading to the **Master of Applied Science (MASc)**, the **Master of Engineering**

Degree and Diploma Programs by Graduate Unit

(**MEng**), and the **Doctor of Philosophy (PhD)**.

Qualified applicants are accepted for advanced studies in one of the following fields: Building Engineering, Environmental Engineering, Structural Engineering, Transportation Engineering, and Geomechanics.

Students registered in the MASc or PhD are required to participate in the non-credit seminar course JDE 1000H *Ethics in Research* during their first or second session of registration.

The department also offers a graduate program in Cities Engineering and Management leading to the **Master of Engineering in Cities Engineering and Management (MEngCEM)**.

Contact and Address

Admission Inquiries

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Telephone: (416) 946-8028

Fax: (416) 978-6813

Student Services Inquiries

Kendra Hawke

Email: kendra.hawke@utoronto.ca

Telephone: (416) 978-5904

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Civil Engineering's additional admission requirements stated below.
- 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 full-course equivalents (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

Degree and Diploma Programs by Graduate Unit

departmental graduate student handbook for further details.

- Students in the MASc program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Master of Engineering

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Civil Engineering's additional admission requirements stated below.
- 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 full-course equivalents (FCEs) (10 half courses) for the coursework-only program. Up to two half courses may be replaced by a research/design project.
- The program may be pursued on a full-time, extended full-time, or part-time basis.
 - Full-time option: students normally complete the requirements in three sessions (one year).
 - Extended full-time option: students are expected to complete the requirements in six sessions (two years) and are limited to six half courses per year and three half courses per session.
 - Part-time option: students are limited to four half courses per year and two half courses per session. Students normally complete the requirements in six sessions (two years).
- Students in the MEng program have the option of completing an emphasis in Advanced Water Technologies and Process Design or Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S);

9 sessions part-time

Time Limit

3 years full-time and extended 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. Applicants must also satisfy the Department of Civil Engineering's additional admission requirements stated below.
- 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 minimum of 4.5 full-course equivalents (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 half courses will be taken outside of the student's principal field of research.
- PhD students with an 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 an MASc thesis must complete a total of 4.5 FCEs (nine half courses) beyond the bachelor's degree program.
- Students with an 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.
- Students in the PhD program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Degree and Diploma Programs by Graduate Unit

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Emphasis: Advanced Water Technologies and Process Design

Master of Engineering (MEng) students must successfully complete four core courses (2.0 full-course equivalents [FCEs]) and one specialization course (0.5 FCE), which are counted towards the total 5.0 FCEs required for the MEng program.

- Four core courses (2.0 FCEs):
 1. CHE 1150H *Industrial Water Treatment*
 2. CIV 1319H *Chemistry and Analysis of Water and Waste*
 3. STA 1004H *Introduction to Experimental Design, and*
 4. at least one of the following (either of the other two can count as the specialization course):
 - CIV 1308H *Physical/Chemical Treatment Processes*
 - CIV 541H *Environmental Biotechnology*
 - CIV 1311H *Advanced and Sustainable Drinking Water Treatment*
- One specialization course selected from the following (0.5 FCE):
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*
 - CIV 1303H *Water Resources Systems Modeling*
 - CHE 565H *Aqueous Process Engineering*
 - CHE 1213H *Corrosion*
 - CHE 1430H *Hydrometallurgy Theory and Practice*
 - JNC 2503H *Environmental Pathways*, or one of the remaining courses from item 4.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, the student will receive a Letter of Completion.

Emphasis: Sustainable Energy

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H,
CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H,
CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H,
ECE 533H, ECE 1055H, ECE 1057H, ECE 1085H, ECE 1086H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,
MSE 558H, MSE 1022H, MSE 1028H

Course List

Not all courses are given every year. Some courses may require a prerequisite. Please consult the department.

General Interest

CIV 1001H	MEng Project I
CIV 1002Y	MEng Project II
CIV 1099H	Special Studies in Civil Engineering
CIV 1504H	Applied Probability and Statistics for Civil Engineering
CIV 1539H	Evaluation of Civil Engineering Systems

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 1275H	Construction Modeling Methods
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

Degree and Diploma Programs by Graduate Unit

Environmental Engineering

CIV 540H	Treatment Processes
CIV 549H	Groundwater Flow and Contamination
CIV 550H	Water Resources Engineering
CIV 1303H	Water Resources Systems Modelling
CIV 1307H	Life Cycle Assessment of Engineering Activities
CIV 1308H	Physical and Chemical Treatment Processes
CIV 1309H	Biological Treatment Processes
CIV 1311H	Advanced and Sustainable Drinking Water Treatment
CIV 1319H	Chemistry and Analysis of Water and Wastes
CIV 1320H	Indoor Air Quality
CIV 1337H	Simulation in Civil Engineering
CIV 1399H	Special Studies in Civil Engineering

Geomechanics

CIV 523H	Geotechnical Design
CIV 529H	Rock Engineering
CIV 1404H	Material Fracture Dynamics: Experimental Methods
CIV 1410H	Satellite Positioning and Remote Sensing
CIV 1419H	Rock Dynamics
CIV 1420H	Soil Properties and Behaviour
CIV 1421H	Continuum Mechanics of Fluids and Solids
CIV 1422H	Dynamic Response of Engineering Materials
CIV 1429H	Advanced Rock Engineering: Rock Engineering in Fractured Rock Masses
CIV 1446H	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 1167H	Advanced Structural Dynamics
CIV 1169H	Advanced Topics in Building Design
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 1190H	Structures Under Blast and Impact
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 1532H	Fundamentals of ITS and Traffic Management
CIV 1535H	Transportation and Development
CIV 1538H	Transportation Demand Analysis
CIV 1540H	Urban Transportation Networks
CIV 1599H	Special Studies in Civil Engineering

Cities Engineering and Management

Master of Engineering in Cities Engineering and Management

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Civil

Degree and Diploma Programs by Graduate Unit

Engineering's additional admission requirements stated below.

- Applicants with backgrounds in an applied science other than engineering may be admitted.
- Applicants are required to have one year of work experience before admission to the program.

Program Requirements

- The MEngCEM program can be completed through full-time studies over four continuous sessions or through an extended full-time (EFT) option over three years.
- The program requires completion of 6.0 full-course equivalents (FCEs), composed of 10 half courses (5.0 FCEs) and a 1.0 FCE Practicum typically completed during the summer of the first academic year (full-time) or summer of the second year (extended full-time option).
- The program consists of three required themes (see course list below):
 - Theme A Infrastructure Engineering: minimum of four half courses chosen from Theme A course list (2.0 FCEs); each student's course selection requires approval by the Program Director prior to enrolment
 - Theme B Cities as Complex Systems: four required half courses (2.0 FCEs)
 - Theme C Practicum: includes presentation and technical report (1.0 FCE)
- Two half-course electives (1.0 FCE) chosen from either Theme A or B list of courses, or from the list of Technology Management courses below.

Registration Path to Completion

EFT Registration Option	Fall	Winter	Summer
Year 1	Theme B	Theme A	Theme A
Year 2	Theme A	Theme B	Theme C (Practicum)
Year 3	Theme B	Theme A	Theme A

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);

9 sessions extended full-time (typical registration sequence: F/W/S/F/W/S/F/W/S)

Time Limit

3 years

Course List

Courses must be approved by the Program Director.

Theme A

Eligible courses include graduate courses with course prefixes as follows: AER, BME, CHE, CIV, ECE, MIE, and MSE, including some courses at the 500 level.

Theme B

Required Courses

CEM 1001H	The Challenges of Urban Policy-Making (Core)
CEM 1002H	Empirical Study of Cities (Core)
CEM 1003H	Infrastructure and Urban Prosperity (Core)
CEM 1004H	Cities as Complex Systems (Core)
CEM 1005H	Integrative Decision Making for Cities (Core) Theme C
CEM 1000Y	Cities Engineering and Management Practicum (required)

Technology Management Course Electives (Course List is Subject to Change)

APS 1001H	Project Management
APS 1005H	Operations Research for Engineering Management
APS 1009H	Natural Resources Management
APS 1010H	Cognitive and Psychological Foundations of Effective Leadership
APS 1012H	Management of Innovation in Engineering
APS 1015H	Social Entrepreneurship
APS 1016H	Financial Management for Engineers
APS 1017H	Supply Chain Management and Logistics
APS 1024H	Infrastructure Resilience Planning
APS 1025H	Infrastructure Protection
APS 1031H	Infrastructure Planning
APS 1088H	Entrepreneurship and Business for Engineers
APS 1201H	Topics in Engineering and Public Policy
APS 1202H	Engineering and Sustainable Development
CHE 1435H	Six Sigma for Chemical Processes
CIV 1307H	Life Cycle Assessment and Sustainability of Engineering Activities

Degree and Diploma Programs by Graduate Unit

Combined Degree Program: Environmental Biology (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Biology (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Chemistry (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Chemistry (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Geoscience (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Geoscience (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Physics (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Physics (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

For full details, please see the Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering entry in the Combined Degree Programs section of this calendar.

Graduate Faculty

Full Members

Abdulhai, Baher - BEng, MEng, PhD, PEng
Andrews, Robert - BASc, MAsC, PhD, PEng
Andrews, Susan - BSc, MSc, PhD
Bentz, Evan - BASc, PhD, PEng
Christopoulos, Constantin - BE, MAsC, PhD, CRC, PEng
Collins, Michael - BE, PhD, PEng
Drake, Jennifer Anne Pauline - BEng, MAsC, PhD
El-Diraby, Tamer - BSc, MSc, PhD, PEng
Esmaili, Kamran - BSc, MSc, PhD
Gauvreau, Douglas Paul - BSc, MSc, PhD, PEng
Grabinsky, Murray - BASc, MAsC, PhD, Robert M Smith Chair in Geotechnical Mine Design and Analysis, PEng
Grasselli, Giovanni - PhD, PEng
Hadjigeorgiou, Ioannis (John) - DiplGeol, BASc, ME, DPhil, Pierre Lassonde Chair in Mining Engineering, PEng
Harrison, John Paul - BSc, MSc, PhD, W M Keck Chair of Seismology and Rock Mechanics
Hofmann, Ronald - BEng, MAsC, PhD, PEng

Degree and Diploma Programs by Graduate Unit

Hooton, R Douglas - BAsC, MAsC, PhD, PEng
Karney, Bryan - BSc, MEng, PhD, PEng
Kennedy, Christopher - BEng, MEc, MBA, MAsC, PhD, PEng
MacLean, Heather L - BAsC, MAsC, MBA, PhD, PEng
McCabe, Brenda - BSc, PhD, PEng
Miller, Eric - BAsC, MAsC, PhD
Packer, Jeffrey - BE, MSc, DSc, PhD, Bahen/
Tanenbaum Chair in Civil Engineering, PEng
Panesar, Daman - BE, ME, PhD, PEng
Pressnail, Kim - BAsC, PhD, PEng
Roorda, Matthew - BEng, MAsC, PhD, PEng
Shalaby, Amer - BSc, MAsC, PhD, PEng
Sheikh, Shamim - BSE, MAsC, PhD, PEng
Siegel, Jeffrey Alexander - BS, MS, PhD
Sleep, Brent - BSc, MAsC, PhD, PEng (**Chair and Graduate Chair**)
Vanderburg, Willem - BAsC, MAsC, PhD, PEng
Vecchio, Frank - BAsC, MEng, PhD, Bahen/Tanenbaum
Chair in Civil Engineering, PEng
Xia, Kaiwen - BAsC, MS, PhD, PEng
Young, R. Paul - BSc, MSc, PhD, CEng

Members Emeriti

Adams, Barry - BSc, MS, PhD, PEng
Bawden, William - BSc, MSc, PhD, PEng
Birkemoe, Peter - BS, MSc, PhD
Byer, Philip - BS, MS, PhD, PEng
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

Berube, Pierre - BAsC, MAsC, PhD
Bolton, James - BA, MA, PhD
Calvi, Gian Michele - MSc, PhD
Fotopoulos, Georgia - BSc, MSc, PhD, PEng
Guner, Serhan - BSc, MSc, PhD
Hay, Alexander - BSc, PEng
Julien, Michel - BEng, BSc, MSc, PhD
Metcalf, Murray - MS, PhD
Pierce, Matthew - BSc, MSc, PhD
Seica, Michael - DiplIng, PhD

Classics

Faculty Affiliation

Arts and Science

Degree Programs

Classics

MA	<i>Fields:</i> Greek and Roman History Greek and Roman Literature Greek and Roman Philosophy
PhD	<i>Fields:</i> Greek and Roman History Greek and Roman Literature Greek and Roman Philosophy

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. **Jewish Studies**
 - Classics, MA, PhD
6. **Sexual Diversity Studies**
 - Classics, MA, PhD
7. **Women and Gender 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 the fields of Greek and Roman History, Greek and Roman Literature, and Greek and Roman Philosophy. 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 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Classics' additional admission requirements stated below.
- 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 two-year MA program or the one-year advanced-standing option, 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 one of GRK 1000H or LAT 1000H (intensive advanced language skills), or equivalent, or a course from the CLA 1300H series, with a grade of at least B-.
- Completion of three courses from the CLA 5000H series.
- Completion of the sight translation examination in either Greek or Latin with a grade of at least B-.
- Completion of CLA 2000Y *Graduate Research Paper* with a grade of at least B. Each student is assigned to a faculty advisor for CLA 2000Y and works independently on the preparation of a research paper (about 8,000 words in length). The Graduate Research Paper is assessed by a committee of two faculty members, including the advisor.
- Completion of the Greek qualifying examination and the Latin qualifying examination (three-hour translation exam in each language, including both prose and poetry) with a grade of at least B-.

Students whose field is Greek and Roman History may only choose to satisfy this requirement by completing either the Greek or the Latin qualifying examination with a grade of at least B- **and** by completing one language course in the other language with a grade of at least B+.

- The MA program may be taken on a part-time basis.
- **Two-Year Master of Arts**
 - Year 1: Students normally complete at least 3.0 full-course equivalents (FCEs) selected in consultation with the Graduate Coordinator from departmental language courses and seminars. Students who do not complete these courses with appropriate standing may be required to withdraw from the MA program or to retake the courses.
 - Year 2: Students normally complete at least 3.0 FCEs, including the Graduate Research Paper, selected in consultation with the Graduate Coordinator, and complete the sight translation examination and qualifying examination(s) as above.
- **One-Year Master of Arts: Advanced-Standing Option**
 - Students normally complete at least 3.0 FCEs, including the Graduate Research Paper, selected in consultation with the Graduate Coordinator, and complete the sight translation examination and qualifying examination(s) as above.

Program Length

3 sessions full-time (1-year advanced-standing option)
(typical registration sequence: F/W/S);
6 sessions full-time (2-year program) (typical registration sequence: F/W/S/F/W/S);
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. Applicants must also satisfy the Department of Classics' additional admission requirements stated below.
- 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 either Latin or Greek and at least three years in the other language, and a broad preparation in the reading of ancient texts in the original languages.

Degree and Diploma Programs by Graduate Unit

- 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.

Program Requirements

The following program requirements apply to all doctoral students, whether admitted under standard conditions or with advanced standing:

- Satisfactory completion of GRK 1000H and LAT 1000H, or equivalent. At the department's discretion, students who need additional preparation 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 CLA 2000Y *Graduate Research Paper* 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.
- Satisfactory completion of 10 seminars with an A- average, including at least two outside the student's field of specialization (one of which must not be offered or cross-listed by the Department of Classics).
- Completion of the Greek qualifying examination and Latin qualifying examination with grades of at least B+. One of these exams must be passed by the end of Year 2, and both must be passed by the end of Year 3 of the PhD. Doctoral students who complete the qualifying examinations at a lower standard which nevertheless satisfies the MA requirement will be granted the MA. Students admitted with advanced standing are exempt from the qualifying examinations.
- Satisfactory completion of sight translation examinations in both Greek and Latin with grades of at least B+. This requirement must be completed before the major field examination is attempted. Students whose field is Greek and Roman History may satisfy this requirement with a grade of at least B+ on the sight translation examination in one language and a grade of at least B on the sight translation examination in the other language.
- Demonstration of adequate reading knowledge of two languages of research other than English, one of which will normally be German, before the major field examination is attempted.
- Satisfactory participation for at least two years in the seminar series for the student's field (SRD 4444Y or AMP 2000Y).

Degree and Diploma Programs by Graduate Unit

- Satisfactory completion of the major field examination (CLA 4000Y⁰). The major field defines a broad area of specialization, within which the dissertation topic will fall. It is normally established by Year 3 of the program (Year 2 for students admitted with advanced standing) and is directed by the supervisory committee. Preparation for the major field examination includes the completion of a satisfactory research essay. The major 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 Year 4 (Year 3 for students admitted with advanced standing).
- The dissertation should be completed by the end of Year 5 (Year 4 for students admitted with advanced standing).

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.

GRK 1000H	Advanced Studies in Greek Language (Credit/No Credit)
GRK 1800H	Special Topics in Greek Literature
GRK 1801H	Special Topics in Greek History
GRK 1802H	Readings in Greek Epic
GRK 1803H	Readings in Greek Verse
GRK 1804H	Readings in Greek Tragedy
GRK 1805H	Readings in Greek Comedy
GRK 1806H	Readings in the Greek Historians
GRK 1807H	Readings in the Greek Philosophers
GRK 1808H	Readings in the Greek Orators
GRK 1809H	Archaic Greek Literature and Culture
GRK 1810H	Classical Greek Literature and Culture
GRK 1811H	Hellenistic Literature and Culture
GRK 2500Y ⁰	Greek Qualifying Exam
GRK 2505Y ⁰	Greek Sight Exam

LAT 1000H	Advanced Studies in Latin Language (Credit/No Credit)
LAT 1800H	Special Topics in Latin Literature
LAT 1801H	Special Topics in Roman History
LAT 1802H	Readings in Latin Epic
LAT 1803H	Readings in Latin Verse
LAT 1804H	Readings in Roman Drama
LAT 1805H	Readings in Roman Satire and Novel
LAT 1806H	Readings in the Roman Historians
LAT 1807H	Readings in the Roman Philosophers
LAT 1808H	Readings in the Roman Orators
LAT 1809H	Readings in Roman Republican Literature and Culture
LAT 1810H	Readings in Roman Imperial Literature and Culture
LAT 1811H	Readings in Late Latin Literature and Culture
LAT 2500Y ⁰	Latin Qualifying Exam
LAT 2505Y ⁰	Latin Sight Exam
CLA 1800H	Special Topics in Classical Literature
CLA 1801H	Special Topics in Ancient History
CLA 2000Y	Graduate Research Paper
CLA 3000H	Research Techniques in Classics
CLA 3020H	Research Methods in Ancient History
CLA 3200Y	Work in Progress in Ancient History
CLA 3500H ⁰	Minor Field
CLA 4000Y ⁰	Major Field
AMP 2000Y ⁰	Collaborative Program in Ancient and Medieval Philosophy Proseminar

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

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.

CLA 5000H	Early Greek Epic
CLA 5002H	Studies in Greek Drama I
CLA 5003H	Studies in Greek Drama II
CLA 5004H	Studies in Greek Poetry

CLA 5007H	Criticism of Latin Poetry
CLA 5008H	Roman Comedy
CLA 5009H	Literature of the Roman Republic
CLA 5010H	Virgil
CLA 5012H	Studies in Ancient Philosophy I
CLA 5013H	Studies in Ancient Science
CLA 5014H	The Ancient Novel
CLA 5015H	Latin Poetry of the Empire
CLA 5016H	Topics in Greek and Hellenistic History
CLA 5018H	Topics in Roman History
CLA 5020H	Studies in Ancient Philosophy II
CLA 5021H	Topics in the Study of Greek and Hellenistic Literature and Culture
CLA 5022H	Topics in the Study of Greek and Hellenistic Society
CLA 5023H	Topics in the Study of Roman Literature and Culture
CLA 5024H	Topics in the Study of Roman Society
CLA 5025H	Topics in Greek and Hellenistic History II
CLA 5026H	Topics in Graeco-Roman Historiography I
CLA 5027H	Topics in Graeco-Roman Historiography II
CLA 5028H	Topics in Graeco-Roman History I
CLA 5029H	Topics in Graeco-Roman History II
JMT 1000H	Andronicus of Rhodes and the Early Peripatos
JMT 1002H	Augustine: Soliloquia

Directed Reading

CLA 1300Y	Studies in Classical Antiquity
CLA 1301H	Studies in Classical Antiquity
CLA 1303H	Studies in Classical Antiquity
CLA 1304H	Studies in Classical Greek
CLA 1305H	Studies in Classical Latin
CLA 1306H	Studies in Greek Literature I
CLA 1307H	Studies in Greek Literature II
CLA 1308H	Studies in Latin Literature I
CLA 1309H	Studies in Latin Literature II

Graduate Faculty

Full Members

Akrigg, Benjamin - BA, PhD
 Barney, Rachel - BA, PhD
 Bendlin, Andreas - PhD
 Blouin, Katherine - BA, MA, PhD, PhD
 Bruun, Christer - BA, MA, PhD (**Chair and Graduate Chair**)
 Burgess, Jonathan - BA, MA, PhD
 Dewar, Michael - BA, MA, DPhil
 Gunderson, Erik - BA, MA, PhD
 Hoeschele, Regina - MA, PhD (**Graduate Coordinator**)
 Inwood, Brad - BA, MA, PhD, FRSC
 Keith, Alison - BA, MA, PhD, FRSC
 Lytle, Thomas - BA, PhD
 Magee, John - BA, MA, PhD
 Nakassis, Dimitri - BA, MA, PhD
 Revermann, Martin - PhD
 Welsh, Jarrett - BA, MA, PhD
 Wohl, Victoria - BA, MA, PhD

Members Emeriti

Barnes, Timothy - BA, MA, DPhil, FRSC
 Beck, Roger - BA, MA, PhD
 Grant, John - BA, MA, PhD
 Irwin, Marjorie - BA, PhD, PhD
 Mason, Hugh - BA, AM, PhD
 McDonough, Christopher - BA, MA, PhD
 Rist, John - MA
 Rubincam, Catherine - BA, BA, PhD
 Traill, John - BA, MA, PhD

Associate Members

Balot, Ryan - BA, AM, PhD
 Bernard, Seth - BA, PhD
 Chrubasik, Boris - MA, PhD
 Edmondson, Jonathan - PhD
 Everett, Nicholas - BA, MA, PhD
 Ewald, Bjorn - AM, PhD
 Kloppenborg, John - BA, MA, PhD
 Knappett, Carl - MA, PhD
 Marshall, John - BA, MA, PhD
 Orwin, Clifford - AB, AM, PhD
 Townsend, David Robert - BA, MA, PhD
 Weinrib, Ernest - BA, LLB, 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, PhD
4. **Sexual Diversity Studies**
 - Comparative Literature, MA, PhD
5. **South Asian Studies**
 - Comparative Literature, MA, PhD
6. **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: <http://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 Comparative Literature

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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

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 6.0 full-course equivalents (FCEs), of which 3.0 must be COL courses.
- A student with an **MA in Comparative Literature** or its equivalent must take at least 4.5 FCEs, of which a minimum of 2.0 FCEs 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.

Degree and Diploma Programs by Graduate Unit

- 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 coursework, 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 take their field examination by the end of the Spring session of Year 3 of the program. The examination consists of both a field paper and an oral component. The field paper is a 30-page critical essay based on the candidate's reading list that assesses the current state of research and delineates issues and questions pertinent to the thesis. The field paper must be submitted two to three weeks prior to the oral field exam.
- The oral part of the examination begins with a textual explication by the student, no more than 30 minutes in length, of a specific passage or poem from a work in the primary reading list, assigned for preparation at least three days in advance. For the presentation, only notes or a general outline may be used. The rest of the examination usually consists of questions concerning the student's commentary on the text, the written field paper, the reading list of the original field proposal, and/or other aspects of the field. The oral exam lasts for two hours.
- In the event of failure, the student will be given one more chance to take the exam within one year. Failure after two attempts will lead to the termination of the student's registration.
- When the field examination has been completed successfully, the candidate will prepare and defend a

Degree and Diploma Programs by Graduate Unit

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.

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

COL 1000H	Faculty Seminar
COL 5012H	How Aesthetics was Made a Science: Readings in Czech and Russian
COL 5018H	Gender and Agency
COL 5019H	Cervantes and Renaissance Humanism
COL 5037H	Magic Prague—Questions of Literacy Cityscapes
COL 5044H	A Journey from Petersburg to Los Angeles
COL 5052H	Marxism and Form
COL 5079H	Lacan and Psychoanalytic Thought
COL 5086H	Literature, Culture and Contact in Medieval Iberia
COL 5094H	Forms of Critical Writing
COL 5095H	Giorgio Agamben: Exception and Potentiality
COL 5101H	Diasporic Cities: Itinerant Narratives of Metropolises by Travellers and Expatriates
COL 5114H	Destruction of Images

COL 5115H	Said: Beginning with Beginnings
COL 5116H	Queer Ethics and Aesthetics of Existence
COL 5117H	Freud and Psychoanalysis
COL 5118H	Sovereignty: Hobbes and his 20th- and 21st-Century Successors
COL 5119H	Girls and Sex in the 21st Century
JCY 5116H	Freud: Case Histories
JFC 5056H	Autobiography, Photography, Narrativity
JFC 5105H	Collections of Knowledge: Encyclopedism and Travel Literature, 1500–1800
JFC 5120H	The Gift: Stories of a Paradigm
JLE 5116H	Naming the World: Realism Travels the Globe

Graduate Faculty

Full Members

Ambros, Veronika - MA, PhD
 Bai, Ruoyun - BA, MA, PhD
 Cazdyn, Eric - BA, MA, PhD
 Comay, Rebecca - BA, MA, PhD
 Esonwanne, Uzoma - BA, MA, PhD
 Havercroft, Barbara - BA, MA, PhD
 Jagoe, Eva-Lynn - BA, MA, PhD
 Kleber, Pia - BA, MA, MA, PhD
 Komaromi, Ann - MA, DPhil (**Coordinator, Graduate Studies**)
 Kortenaar, Neil ten - BA, MA, PhD
 Lahusen, Thomas - MA, PhD
 Le Huenen, Roland - DesL, DLitt
 LeBlanc, Julie - BA, PhD
 Li, Victor - BA, MA, PhD
 Nyquist, Mary - BA, MA, PhD
 Ricco, John - BA, MA, PhD
 Ross, Jill - BA, MA, PhD (**Director, Centre for Comparative Literature**)
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Sakaki, Atsuko - BA, MA, PhD
 Sternberg, Ricardo - BA, MA, PhD
 Zilcosky, John - BA, MA, MA, PhD

Members Emeriti

Chamberlin, J Edward - BA, PhD
 Davis, Natalie - BA, MA, PhD
 Dolezel, Lubomir - BA, PhD, FRSC
 Hutcheon, Linda - BA, MA, PhD
 Kushner, Eva - BA, MPH, PhD
 Nesselroth, Peter - BA, MA, PhD
 Stock, Brian - AB, PhD
 Valdes, Mario - BA, MA, PhD

Associate Members

Akbari, Suzanne - BA, MA, MPH, PhD
Balfour, Ian - DPhil
Bender, Daniel Eric - BA, PhD
Budde, Antje - PhD
Capozzi, Rocco - BA, MA, PhD
Clark, Caryl - BMus, MA, PhD
Cozea, Angela - BA, MA, PhD
Esterhammer, Angela - BA, PhD
Goetschel, Willi - PhD
Hewitt, Marsha - BA, MA, PhD
Holland, Kate - MA, PhD
Kandiyoti, Dalia - PhD
Keith, Alison - BA, MA, PhD, FRSC
Legge, Elizabeth MM - BA, BA, MA, PhD
Leonard, Garry - BA, MA, PhD
Matus, Jill - BA, MA, PhD
Meng, Yue - BA, MA, MA, PhD
Miller, Jeanne - BA, MA, PhD
Motsch, Andreas - PhD
Noyes, John - BA, MA, PhD
Paterson, Janet - BA, MA, PhD
Patrick, Julian - BA, MA, PhD
Perron, Paul - PhD
Pietropaolo, Domenico - BSc, MA, PhD
Pugliese, Olga - BA, MA, PhD
Quayson, Ato - BA, PhD
Revermann, Martin - PhD
Robins, William - BA, MPH, PhD
Sarabia, Rosa - BA, PhD
Somigli, Luca - PhD
Stern, Simon - BA, PhD, JD
Trojanowska, Tamara - MA, PhD
Xie, Ming - BA, PhD

Degree and Diploma Programs by Graduate Unit

Computer Science

Faculty Affiliation

Arts and Science

Degree Programs

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. **Genome Biology and Bioinformatics**
 - Computer Science, PhD
2. **Knowledge Media Design**
 - Computer Science, MSc, PhD
3. **Neuroscience**
 - 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 online.

Contact and Address

Web: www.cs.toronto.edu

Email: gradadmissions@cs.toronto.edu

Telephone: (416) 978-8762

Fax: (416) 946-1932

Department of Computer Science Graduate Office
University of Toronto
Room 4242, Bahen Centre for Information Technology
40 St. George Street
Toronto, Ontario M5S 2E4
Canada

Degree Programs

Applied Computing

Master of Science in Applied Computing

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Computer Science's additional admission requirements stated below.
- 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 Test of English as a Foreign Language (TOEFL) score of at least 580 on the paper-based test and 4 on the Test of Written English (TWE); 93/120 on the Internet-based test and 22/30 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.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F)

Time Limit

3 years full-time

Computer Science

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Computer Science's additional admission requirements stated below.
- An appropriate bachelor's degree with a standing equivalent to at least a 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 Test of English as a Foreign Language (TOEFL) score of at least 580 on the paper-based test and 4 on the Test of Written English (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.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);

8 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. Applicants must also satisfy the Department of Computer Science's additional admission requirements stated below.
- 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 a standing equivalent to at least a University of Toronto A-. Preference is 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

- 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.
- A meeting of the PhD supervisory committee meeting must be held by the 16th month of the PhD program. This is typically the initial meeting with the supervisory committee and is referred to as the qualifying oral examination. After the qualifying oral, the student's PhD supervisory committee must meet at least once annually. The student must have their thesis topic approved at a PhD supervisory committee meeting within the time frame for achieving candidacy. The departmental thesis defense must be passed before the SGS Final Oral Examination can be scheduled.

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 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 2125H	Algorithmic Program Verification

Degree and Diploma Programs by Graduate Unit

CSC 2130H	Empirical Research Methods in Software Engineering
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Computer Systems: Hardware and Software

CSC 2203H	Packet Switch and Network Architectures
CSC 2206H	Computer Systems Modelling
CSC 2208H	Advanced Operating Systems
CSC 2209H	Computer Networks
CSC 2221H	Introduction to Distributed Computing
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 Computer Networks
CSC 2231H	Topics in Computer Systems
CSC 2232H	Topics in Computer System Performance and Reliability
CSC 2233H	Topics in Storage Systems

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
CSC 2310H	Computational Methods for Partial Differential Equations
CSC 2321H	Matrix Calculations
CSC 2322H	Boundary Problems for Ordinary Differential Equations
CSC 2326H	Topics in Numerical Analysis

Computational Complexity

CSC 2401H	Introduction to Computational Complexity
CSC 2404H	Computability and Logic
CSC 2405H	Automata Theory
CSC 2411H	Linear Programming and Combinatorial Optimization

CSC 2415H	Advanced Topics in Distributed Computing
CSC 2416H	Machine Learning Theory
CSC 2426H	Fundamentals of Cryptography
CSC 2429H	Topics in the Theory of Computation

Applied Discrete Mathematics

CSC 2410H	Introduction to Graph Theory
CSC 2413H	Combinatorial Methods and Designs
CSC 2414H	Topics in Applied Discrete Mathematics
CSC 2418H	Computational Structural Biology
CSC 2420H	Algorithm Design, Analysis, and Theory
CSC 2421H	Algebraic and Combinatorial Techniques in Complexity Theory
CSC 2422H	Reasoning About Knowledge
CSC 2427H	Topics in Graph Theory

Artificial Intelligence

CSC 2501H	Computational Linguistics
CSC 2502H	Knowledge Representation and Reasoning
CSC 2503H	Foundations of Computer Vision
CSC 2506H	Probabilistic Learning and Reasoning
CSC 2511H	Natural Language Computing
CSC 2512H	Constraint Satisfaction Problems
CSC 2515H	Introduction to Machine Learning
CSC 2517H	Discrete Mathematical Models of Sentence Structure
CSC 2518H	Spoken Language Processing
CSC 2519H	Natural Language Semantics
CSC 2520H	The Computational Lexicon
CSC 2523H	Object Modelling and Recognition
CSC 2528H	Advanced Computational Linguistics
CSC 2530H	Computer Vision for Advanced Digital Photography
CSC 2532H	Dynamical Systems and Artificial Intelligence
CSC 2533H	Foundations of Knowledge Representation
CSC 2534H	Decision Making Under Uncertainty
CSC 2535H	Advanced Machine Learning

Degree and Diploma Programs by Graduate Unit

CSC 2539H	Topics in Computer Vision
CSC 2540H	Special Topics in Computational Linguistics
CSC 2541H	Topics in Machine Learning
CSC 2542H	Topics in Knowledge Representation and Reasoning
CSC 2544H	Web Searching and Mining

Computer Graphics and Human-Computer Interaction

CSC 2504H	Computer Graphics
CSC 2505H	Geometric Representations for Computer Graphics
CSC 2514H	Human-Computer Interaction
CSC 2521H	Topics in Computer Graphics
CSC 2522H	Advanced Image Synthesis
CSC 2524H	Topics in Interactive Computing
CSC 2529H	Computer Animation
CSC 2536H	Computer Supported Cooperative Work

Information Systems

CSC 2231H	Special Topics in Computer Systems
CSC 2417H	Algorithms for Genome Sequence Analysis
CSC 2431H	Topics in Computational Molecular Biology
CSC 2508H	Advanced Management Systems
CSC 2510H	Topics in Information Systems
CSC 2525H	Research Topics in Database Management
CSC 2526H	HCI: Topics in Ubiquitous Computing
CSC 2527H	The Business of Software
CSC 2531H	Advanced Topics in Data Management Systems
CSC 2543H	Research Topics in XML Retrieval
CSC 2720H	Systems Thinking for Global Problems

Courses for MScAC Only

CSC 2701H	Communication for Computer Scientists
CSC 2702H	Technical Entrepreneurship
CSC 2703H	MScAC Internship

Topics/Reading Courses

CSC 2419H	Topics in Cryptography
CSC 2601H	Topics in Analysis and Computation in Discrete Models
CSC 2602H	Topics in Analysis and Computation in Continuous Models
CSC 2603H	Topics in Building Software and Hardware Artifacts
CSC 2604H	Topics in Human-Centred and Interdisciplinary Computing
CSC 2699H	Special Reading Course in Computer Science

Graduate Faculty

Full Members

Abdelrahman, Tarek - BSc, MSc, PhD
 Amza, Cristiana - BS, MS, PhD
 Bacchus, Fahiem - BS, SM, PhD
 Bader, Gary - BSc, PhD
 Balakrishnan, Ravin - BS, SM, PhD, CRC (**Chair and Graduate Chair**)
 Beck, J. Christopher - BSc, MSc, PhD
 Bonner, Anthony - BSc, MSc, PhD
 Borgida, Alex - MSc, PhD
 Borodin, Allan - BS, SM, PhD, FAAAS
 Boutilier, Craig - BS, SM, PhD, CRC
 Braverman, Mark - BMath, MSc, PhD
 Brudno, Michael (Mikhail) - AB, SM, PhD
 Chechik, Marsha - BS, SM, PhD, Bell University Labs
 Chair in Software Engineering
 Chignell, Mark - BSc, PhD
 Christara, Christina - BS, SM, PhD
 De Lara, Eyal - BS, MS, PhD
 Demke Brown, Angela - BS, SM, PhD
 Dickinson, Sven Josef - BASc, MS, PhD
 Easterbrook, Stephen Michael - BSc, PhD
 Ellen, Faith - BM, MMath, PhD
 Fairgrieve, Thomas - BMath, MSc, PhD
 Farzan, Azadeh - BS, PhD
 Fiume, 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
 Gruninger, Michael - BSc, MS, PhD
 Hadzilacos, Vassos - BSE, PhD
 Hertzmann, Aaron - BA, MS, PhD
 Hirst, Graeme - BA, BSc, MSc, PhD
 Jackson, Kenneth - BSc, MSc, PhD
 Jacobsen, Hans-Arno - MCS, PhD
 Jepson, Allan - BSc, PhD (**Coordinator of Graduate Studies**)

Degree and Diploma Programs by Graduate Unit

Koudas, Nick - BS, MS, PhD
Kutulakos, Kiriakos - BS, MSc, PhD
LaMarca, Anthony - BSc, MSc, PhD
Li, Baochun - BEng, MSc, DPhil
Lie, David - BASc, MS, PhD
Liebeherr, Jorg - DiplIng, PhD
Lyons, Kelly - BSc, MSc, PhD
Marbach, Peter Josef - DiplIng, MS, PhD
McIlraith, Sheila - BSc, MSc, PhD
Mihailidis, Alex - BASc, MAsc, PhD
Miller, Renee - BS, BM, MS, PhD, Bell University Labs
Chair in Information Systems
Molloy, Michael - BMath, MMath, PhD
Morris, Quaid - BS, PhD
Moses, Alan - BA, PhD
Neal, Radford - BSc, MSc, PhD
Penn, Gerald - BS, MSc, PhD
Pitassi, Toniann - BS, SM, PhD
Rackoff, Charles - SB, SM, PhD
Roth, Frederick - PhD
Schroeder, Bianca - MSc, PhD
Singh, Karan - BS, MS, PhD
Stam, Jos - PhD
Stevenson, Suzanne Ava - MS, PhD
Stumm, Michael - MS, PhD
Toueg, Sam - BS, MA, MSEE, PhD
Truong, Khai Nhut - BSc, PhD
Tsotsos, John - BASc, MSc, PhD, CRC
Urtasun, Raquel - PhD
Veneris, Andreas - BSc, MSc, PhD
Wigdor, Daniel - PhD
Yu, Eric - BSc, MMath, PhD
Zemel, Richard - BA, SM, PhD
Zhang, Zhaolei - BS, PhD

Pu, Ken - PhD
Rudzicz, Frank - PhD
Taati, Babak - PhD
Tafliovich, Anya - DPhil

Members Emeriti

Baecker, Ronald - BS, SM, PhD
Cook, Stephen - BS, SM, PhD
Enright, Wayne - BSc, MSc, PhD
Gotlieb, Calvin Carl - BA, MA, PhD
Hehner, Eric - BSc, MSc, PhD
Hinton, Geoffrey - BA, PhD
Levesque, Hector - BSc, MSc, PhD
Mathon, Rudolf - MSc, PhD
Mendelsohn, Eric - BSc, MSc, PhD
Mylopoulos, John - BE, MSc, PhD
Urquhart, Alasdair - MA, MA, PhD

Associate Members

Buxton, William - MusB
Danahy, John - BLA, MRP
Fazly, Afsaneh - PhD
Fidler, Sanja - PhD
Forlines, Clifton - PhD
Goldenberg, Anna - PhD
Hoffman, Michael - PhD
Jurisica, Igor - PhD, CRC
Lilien, Ryan - BS, MD, PhD

Criminology and Sociolegal Studies

Faculty Affiliation

Arts and Science

Degree Programs

Criminology

MA

Combined Degree Program: Law, Juris Doctor /
Criminology, 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 sociolegal studies. MA graduates 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 post-graduate work, such as in criminology, sociology, law, and social work. PhD graduates have mainly found employment in tenure-track positions, most often in sociology departments or in criminology programs. Both the MA and PhD degree programs 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 Junior Fellow 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,

Degree and Diploma Programs by Graduate Unit

geography, law, and sociology. Exceptionally, doctoral students pursuing degrees at other universities but residing in Toronto may apply to be appointed as 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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the additional admission requirements of the Centre for Criminology and Sociolegal Studies stated below.
- 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 theories of crime and deviance and a basic knowledge of social science research methods.
- 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 of the School of Graduate Studies. 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. Proficiency 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

Degree and Diploma Programs by Graduate Unit

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 Test of Written English (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 of Toronto before a formal offer of admission can be made.

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 includes compulsory and optional courses.
 - The compulsory course is CRI 2010H *Methodological Issues in Criminology*.
 - 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Combined Degree Program: Law, Juris Doctor / Criminology, Master of Arts

For full details, please see the Law, Juris Doctor / Criminology, Master of Arts entry in the Combined Degree Programs section of this calendar.

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Centre for Criminology and Sociolegal Studies' additional admission requirements stated below.

- Applicants normally hold an MA degree in criminology or a cognate field, 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. Proficiency 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 Test of Written English (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 of Toronto 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, except for approved field research. 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, a maximum of 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 or sociolegal studies. 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, with two other

members of the graduate faculty serving on the thesis committee.

- Students will normally complete all course requirements for the PhD in Year 1 of their PhD program. The comprehensive exam will normally be completed by the end of the first session of Year 2. It is expected that the dissertation should be completed and successfully defended by the end of Year 4.

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 for Criminology and Sociolegal Studies 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
CRI 2020H	Applied Statistics in Criminology (Students may take this course or IRE 1002H Applied Statistics in Industrial Relations, but not both.)
CRI 2040H	Drugs and Crime
CRI 2060H	Prisons and Punishment
CRI 3010H	Crime, Criminalization, and Victimization
CRI 3120H	Politics and Crime
CRI 3130H	Policing
CRI 3140H	Special Topics in Criminology
CRI 3160H	Historical Approaches to Crime and Justice in Canada
CRI 3220H	Organized Crime and Corruption
CRI 3240H	Penology
CRI 3256H	Law, Space, and Regulation

Degree and Diploma Programs by Graduate Unit

CRI 3270H	The Psychology of Criminal Behaviour: Theory and Practice
CRI 3310H	Special Topics in Criminology
CRI 3320H	The Criminal Process
CRI 3330H	Contemporary Issues in Safety and Security
CRI 3340H	Special Topics in Criminology
CRI 3350H	Directed Research in Criminology
CRI 3351H	Directed Research in Criminology
CRI 3355H	Sentencing
CRI 3356H	Youth Crime and Youth Justice
CRI 3360Y ⁰	Research Paper

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

Graduate Faculty

Full Members

Dubber, Markus - AB, JD
 Gartner, Rosemary - BA, AA, MS, PhD
 Hannah-Moffat, Kelly - BA, MA, PhD (**Director**)
 Kruttschnitt, Candace - BA, MA, MPH, PhD
 Levi, Ron - BCL, LLB, LLM, SJD
 Light, Matthew - BA, MA, JD, PhD
 Macklin, Audrey - BSc, LLB, LLM
 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, FRSC
 Wortley, N. Scot - BA, MA, PhD

Members Emeriti

Beattie, John - BS, MA, PhD, FRSC, FRHistS
 Doob, Anthony - AB, PhD, FRSC
 Friedland, Martin - BCom, LLB, PhD
 Solomon, Peter - BA, MA, PhD

Associate Members

Bisaillon, Laura - BA, MA, PhD
 Condon, Mary - BA, LLM, MA, SJD
 Contreras, Randol - BA, MA, PhD
 Erickson, Patricia - BA, MA, PhD
 Goodman, Philip - BA, MA, PhD
 Jauregui, Beatrice - PhD
 Matheson, Flora - BA, MA, PhD
 Sytsma, Victoria - PhD

Curriculum, Teaching and Learning

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Curriculum Studies and Teacher Development

MA	<i>Emphasis:</i> Critical Studies in Curriculum and Pedagogy
MEd	
PhD	

Language and Literacies Education

MA
MEd
PhD

Teaching

MT
Combined Degree Program: Music Education (Stream),
Bachelor of Music / Master of Teaching

Collaborative Programs

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

1. **Book History and Print Culture**
 - Language and Literacies Education, MA, MEd, PhD
2. **Comparative, International and Development Education**
 - Curriculum Studies and Teacher Development, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
3. **Educational Policy**
 - Curriculum Studies and Teacher Development, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
4. **Engineering Education**
 - Curriculum Studies and Teacher Development, MA, PhD
5. **Ethnic and Pluralism Studies**
 - Language and Literacies Education, MA, MEd, PhD
6. **Knowledge Media Design**

- Curriculum Studies and Teacher Development, MA, MEd, PhD
- Language and Literacies Education, MA, MEd, PhD

7. Sexual Diversity Studies

- Curriculum Studies and Teacher Development, MA, MEd, PhD

8. Women and Gender Studies

- Curriculum Studies and Teacher Development, MA, MEd, PhD
- Language and Literacies 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. Language and Literacies Education
3. Teaching

These programs reflect a variety of scholarly interests and are closely linked with the department's strong research base.

Contact and Address

Admissions

Initial inquiries 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)
University of Toronto
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
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West, 11th Floor
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 curriculum, viewed in the broadest sense as educational experiences that occur in both formal and informal settings. This includes a critical examination of the substance (subject matter, courses, programs of study), purposes, and practices used for bringing about learning in educational settings.

The CSTD program includes three areas of interest, which reflect overlapping and intersecting areas of strength in the whole Curriculum Studies and Teacher Development Program. One of these areas of interest can be taken as part of an emphasis in Critical Studies in Curriculum and Pedagogy. More details on the clusters.

Critical Studies in Curriculum and Pedagogy

Taking curriculum and pedagogy broadly defined as points of departure, the Critical Studies in Curriculum and Pedagogy cluster is a forum for systematic and interdisciplinary reflection on the myriad of processes and contexts related to educational experience, from schools and local communities, to media and transnational cultural contexts. The cluster encourages a critical exploration of educational phenomena, within and beyond the scope of schools, with a focus on power relations and social justice issues.

Learning, Schools, and Innovations

The Learning, Schools, and Innovations cluster emphasizes scholarship concerning the nature of learning and instruction in formal and informal settings, building on a broad academic literature in educational research, the learning sciences, evaluation and assessment, and learning and instruction within subject areas. The focus is to achieve a theoretical understanding of learning and instruction, embedding that theory in powerful innovations, and advancing the research.

Teaching and Teacher Education

This cluster focuses on the study of teaching and teacher learning across the curriculum. The term "teacher" is used broadly to include those who work in schools, district and government offices, and diverse settings (e.g., museum studies, outdoor education centres).

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 admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.
- 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.
- 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.
- Thesis.
- Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, and ethical review.
- The MA may be taken on a full-time or part-time basis.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

10 sessions part-time

Time Limit

3 years full-time; 6 years part-time

Degree and Diploma Programs by Graduate Unit

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 admitted under the General Regulations of the School of Graduate Studies, 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. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.
- 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 web page. 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.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);
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 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.

Full-Time PhD

- 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 the Curriculum Studies and Teacher Development web page.
 - 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.

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 3.5 full-course equivalents (FCEs), of which at least 2.0 FCEs are ordinarily CTL 1000-level courses. Students are also required to complete CTL 1899H, the *CSTD Doctoral Proseminar* course. 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, one course in research methods from an approved course listing,

as well as the *CSTD Doctoral Proseminar*. The listing for approved research methods courses is available on the CSTD web page.

- 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.
- Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, comprehensive examination, and ethical review.

Program Length

4 years full-time; 8 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Emphasis: Critical Studies in Curriculum and Pedagogy

The emphasis in Critical Studies in Curriculum and Pedagogy will encourage a critical exploration of educational phenomena, within and beyond the scope of schools, and will focus on social justice issues in education including issues related to environmental justice, globalization, colonialism, race, disability, gender, sexuality, and cultural and linguistic difference.

MEd, MA, and PhD students must successfully complete:

- 1.5 full-course equivalents (FCEs) (three core courses), which are counted towards the total FCEs required for the student's degree program;
- Three courses selected from the following: CTL 3031H, CTL 1011H, CTL 1024H, CTL 1031H, CTL 1037H, CTL 1048H, CTL 1062H, CTL 1063H, CTL 1064H, CTL 1065H, CTL 1099H, CTL 1218H, CTL 1219H, CTL 1220H, CTL 1221H, CTL 1302H, CTL 1304H, CTL 1306H, CTL 1307H, CTL 1309H, CTL 1312H, CTL 1313H, CTL 1318H, CTL 1319H, CTL 1816H, CTL 1818H, CTL 1822H, CTL 1861H, CTL 3034H.

Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, the student will receive a Letter of Completion.

Course List

Not all courses are offered every year. Please consult the department for course offerings.

Master's Level

CTL 1000H	Fondements de l'étude des programmes scolaires
CTL 1000H	Foundations of Curriculum Studies

Degree and Diploma Programs by Graduate Unit

CTL 1001H	Values and Schooling
CTL 1005H	Language, Literacy, and the School Curriculum
CTL 1007H	Communities of Learning: Teachers Constructing Professional Knowledge
CTL 1011H	Anti-Oppression Education in School Settings
CTL 1011H	L'éducation pour l'anti-oppression en milieu scolaire
CTL 1012H	Curriculum for Girls and Young Women: Historical and Contemporary Issues
CTL 1014H	Evaluation of Curriculum and Instruction
CTL 1016H	Cooperative Learning Research and Practice
CTL 1018H	Introduction to Qualitative Inquiry in Curriculum, Teaching, and Learning
CTL 1019H	Authentic Assessment
CTL 1020H	Teaching High Ability Students
CTL 1023H	Technology and Education: Critical Perspectives on Theory and Practice
CTL 1024H	Poststructuralism and Education
CTL 1026H	Improving Teaching
CTL 1027H	Facilitating Reflective Professional Development
CTL 1028H	Constructive Feedback in Teaching
CTL 1029H	From Student to Teacher: Professional Induction
CTL 1031H	Language, Culture, and Identity: Using the Literary Text in Teacher Development
CTL 1032H	Knowing and Teaching
CTL 1033H	Multicultural Perspectives in Teacher Development: Reflective Practicum
CTL 1036H	Thoughtful Teaching and Practitioner Inquiry
CTL 1037H	Teacher Development: Comparative and Cross-Cultural Perspectives
CTL 1038H	Change and Curriculum Implementation
CTL 1040H	Fundamentals of Program Planning and Evaluation
CTL 1041H	Research Methods In Education
CTL 1042H	Instrument Development in Education

Degree and Diploma Programs by Graduate Unit

CTL 1043H	Research Issues in Alternative Assessments
CTL 1045H	Survey Research
CTL 1046H	Training Evaluation
CTL 1047H	Course Self-Assessment
CTL 1048H	Qualitative Methodology: Challenges and Innovations
CTL 1060H	Education and Social Development
CTL 1062H	Performed Ethnography and Research Informed Theatre
CTL 1063H	Pedagogies of Solidarity
CTL 1064H	Applied Theatre and Performance in Sites of Learning
CTL 1065H	Approaches to Anti-Homophobia and Anti-Transphobia Education
CTL 1099H	Critical Approaches to Arts-Based Research
CTL 1104H	Play, Drama, and Arts Education
CTL 1105H	Research and Inquiry in Arts Education
CTL 1106H	Spirituality in Education
CTL 1110H	The Holistic Curriculum
CTL 1115H	Teacher Education and the Construction of Professional Knowledge: Holistic Perspectives
CTL 1116H	Holistic Education Approaches in Elementary School Mathematics
CTL 1117H	Liberatory Practices in Drama and Education
CTL 1119H	Gaining Confidence in Mathematics: A Holistic Approach to Rebuilding Math Knowledge and Overcoming Anxiety
CTL 1120H	Effective Teaching Strategies in Elementary Mathematics Education: Research and Practice
CTL 1200H	Science in the School Curriculum
CTL 1202H	Mathematics in the School Curriculum: Elementary
CTL 1206H	Teaching and Learning Science
CTL 1207H	Teaching and Learning about Science: Issues and Strategies in Science, Technology, Society, and Environment (STSE) Education
CTL 1208H	Curriculum Issues in Science and Technology: An Historical Perspective
CTL 1209H	Current Issues in Science and Technology Education

CTL 1211H	Action Research in Science, Mathematics, and Technology Education
CTL 1212H	Curriculum Making in Science: Some Considerations in the History, Philosophy, and Sociology of Science
CTL 1214H	Equity Issues in Science Education
CTL 1215H	Teaching and Learning About Science and Technology: Beyond Schools
CTL 1216H	Teacher Leadership in Curriculum, Teaching, and Technology Education
CTL 1217H	Integrating Science, Mathematics, and Technology Curricula
CTL 1218H	Culture and Cognition in Mathematics, Science and Technology Education
CTL 1219H	Making Secondary Mathematics Meaningful
CTL 1220H	Sociocultural Theories of Learning
CTL 1221H	Experiencing Science Education as a Global Educational and Development Endeavour
CTL 1222H	Environmental Studies in Science, Mathematics, and Technology Education
CTL 1223H	Activist Science and Technology Education
CTL 1304H	Cultural Studies and Education
CTL 1306H	La recherche qualitative en éducation: bases théoriques et pratiques
CTL 1306H	Qualitative Research Methods in Education: Concepts and Methods
CTL 1307H	Identité collective et éducation minoritaire de langue française
CTL 1307H	Identity Construction and Education of Minorities
CTL 1309H	Les stéréotypes sexuels dans les programmes scolaires
CTL 1312H	Democratic Citizenship Education
CTL 1313H	Gender Equity in the Classroom
CTL 1316H	Global Education: Theory and Practice
CTL 1318H	Teaching Conflict and Conflict Resolution
CTL 1319H	Religious Education: Comparative and International Perspectives
CTL 1400H	Classroom Adaptations and Instructional Strategies

CTL 1402H	Adaptive Instruction in Inclusive Classrooms
CTL 1403H	Special Education and Social Representation of Difference
CTL 1405H	The Origins of Modern Schooling I: Problems in Education Before the Industrial Revolution
CTL 1406H	The Origins of Modern Schooling: Issues in the Development of the North American Educational System
CTL 1407H	Rural Education and Social Reform in Canadian History, 1860–1960
CTL 1408H	History of Education and Society: Selected Topics
CTL 1423H	Families, Schooling and Canadian History, 1840–1970
CTL 1424H	Religion, Ideology, and Social Movement in the Development of North American Education
CTL 1426H	The History of Gender and Education in Canada
CTL 1427H	Commemorating Canada, 1800s–1900s
CTL 1428H	Immigration and the Development of Canadian Education
CTL 1429H	Ethnicity and the Development of Canadian Education
CTL 1430H	Gendered Colonialisms, Imperialisms, and Nationalisms in History
CTL 1448H	Popular Culture and the Social History of Education II
CTL 1454H	The Battle Over History Education in Canada
CTL 1460H	History and Educational Research
CTL 1602H	Introduction to Computers in Education
CTL 1603H	Introduction to Knowledge Building
CTL 1604H	Video/Multimedia Design
CTL 1606H	Computers in the Curriculum
CTL 1608H	Constructive Learning and Design of Online Environment
CTL 1609H	Educational Applications of Computer-Mediated Communication
CTL 1611H	Computer-Mediated Distance Education
CTL 1612H	The Virtual Library (Non-Credit)
CTL 1614H	Knowledge Media and Learning

Degree and Diploma Programs by Graduate Unit

CTL 1797H	Practicum in Curriculum: Master's Level
CTL 1798H	Individual Reading and Research in Curriculum: Master's Level
CTL 1799H	Special Topics in Curriculum: Master's Level
Doctoral Level	
CTL 1801H	Action Research and Professional Practice
CTL 1808H	Curriculum Innovation in Teacher Education
CTL 1809H	Narrative and Story in Research and Professional Practice
CTL 1810H	Qualitative Research in Curriculum and Teaching
CTL 1811H	Writing Research/Research Writing: Moving from Idea to Reality
CTL 1812H	Professional Ethics of Teaching and Schooling
CTL 1816H	Minority Education and Inclusion: Policies in Practice
CTL 1817H	Current Issues in Teacher Education
CTL 1818H	Arts in Education: Concepts, Contexts, and Frameworks
CTL 1819H	Multicultural Literature in the Schools: Critical Perspectives and Practices
CTL 1822H	Urban School Research: Youth, Pedagogy, and the Arts
CTL 1825H	The Teacher as a Contemplative Practitioner
CTL 1841H	Research Seminar in Science, Mathematics, and Technology Education
CTL 1842H	Mixed Methods Research in Education: Combining Qualitative and Quantitative Inquiries
CTL 1844H	Seminar in Evaluation Problems (prerequisite: CTL 2803H, CTL 1843H, or equivalent)
CTL 1846H	Assessment for Teaching and Learning
CTL 1847H	Data Analysis and Integration in Mixed Methods Research
CTL 1861H	Critical Ethnography
CTL 1864H	Methodologies for Comparing Educational Systems
CTL 1899H	CSTD Doctoral Proseminar

Degree and Diploma Programs by Graduate Unit

CTL 1923H	Mobile and Ubiquitous Computing in Education
CTL 1926H	Knowledge Media and Learning
CTL 1997H	Practicum in Curriculum: Doctoral Level
CTL 1998H,Y	Individual Reading and Research in Curriculum: Doctoral Level
CTL 1999H	Special Topics in Curriculum: Doctoral Level

Language and Literacies Education

The Language and Literacies Education program investigates questions around the relationships of literacies in language and language in literacies across communities, societies, instructional environments, and informal learning settings.

The scope of the program encompasses the following within applied linguistics and literacies studies:

- (a) the learning, teaching, and use of first and additional (non-native) languages in diverse settings;
- (b) curriculum, instruction, and assessment related to the development of first and additional language and K-12 literacy skills;
- (c) the development of bilingual, multilingual, and translinguistic abilities;
- (d) language and literacy education policies and planning;
- (e) pedagogy oriented towards multiliteracies development, including early literacy and adolescent reading, writing, and oral language development, and children's literature across the curriculum;
- (f) social justice issues related to plurilingualism and cultural and linguistic diversity; and
- (g) pedagogical implications of the fact that language and literacy are infused into all aspects of learning in contexts characterized by linguistic diversity.

Specific resources related to the program include the OISE library's Modern Language Collection, la Collection Franco-Ontarienne, the Children's and Young Adult literature collection, and the Centre for Educational Research on Languages and Literacies. The program offers three degrees: **MA**, **MEd**, and **PhD**.

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. 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. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.

- Ordinarily, applicants should have teacher certification and at least one year of relevant successful professional experience prior to applying.
- Applicants expecting to pursue a doctorate in the future are advised to enrol in the MA (rather than MEd) program.
- All applicants are required to submit a resumé 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 LLE program. Courses must include CTL 3001H *Research Colloquium in Language and Literacies 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 fulfil this requirement: CTL 1018H, CTL 1041H, CTL 1306H, CTL 1810H, CTL 1842H, CTL 3019H, CTL 3800H, CTL 3803H, CTL 3807H, APD 1287H, APD 1288H, or SJE 1905H. Students wishing to propose an alternative course to fulfil one of the LLE course requirements will be required to obtain the approval of both the LLE graduate program coordinator and either their faculty advisor or their thesis supervisor.
- Additional courses may be required of some applicants.
- Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, and ethical review.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

10 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Degree and Diploma Programs by Graduate Unit

Master of Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies, 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. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.
- 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 resumé 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 MEd program consists of 5.0 full-course equivalents (FCEs). A minimum of 2.5 FCEs CTL 3000-level courses must be taken.
- The MEd program of study may be taken on a full- or part-time basis.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);
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 LLE program offers both full-time and flexible-time PhD options. Applicants must declare their preferred option when applying.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.

Full-Time PhD

- 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 of relevant professional experience prior to applying.
- All applicants are required to submit a resumé 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.

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 LLE program, including CTL 3001H Research Colloquium in Language and Literacies 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 fulfil this requirement: CTL 1018H, CTL 1041H, CTL 1306H, CTL 1810H, CTL 1842H, CTL 3019H, CTL 3800H, CTL 3803H, CTL 3807H, APD 1287H, APD 1288H, SJE 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 fulfil one of the LLE course requirements will be required to obtain the approval of the LLE 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.

Program Length

4 years full-time; 7 years flexible-time

Degree and Diploma Programs by Graduate Unit

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

APD 1296H	Assessing School-Aged Language Learners
CTL 3000H	Foundations of Bilingual and Multicultural Education
CTL 3001H	Research Colloquium in Language and Literacies 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	Cognitive, Sociolinguistic, and Sociopolitical Orientations in Bilingual Education Research
CTL 3011H	Bilinguisme et éducation ou membre de la faculté à déterminer
CTL 3013H	Language Assessment
CTL 3015H	Language and Literacies Education in Multilingual Contexts
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	Language Teacher Education
CTL 3025H	Educational Sociolinguistics
CTL 3026H	Pragmatics in Language Education
CTL 3027H	Planification de la programmation pour un enseignement efficace
CTL 3027H	Curriculum Development for Effective Teaching
CTL 3028H	Language Arts in Elementary Education
CTL 3029H	Children's Literature as a Foundation of Literate Behaviour Across the Curriculum
CTL 3030H	Theory and Practice in Elementary Literacy Instruction
CTL 3031H	Children's Literature Within a Multicultural Context
CTL 3032H	Teaching Writing in the Classroom
CTL 3033H	Literary Research Methodologies
CTL 3034H	New Literacies: Making Multiple Meanings
CTL 3035H	Critical Literacy in Action
CTL 3036H	Expressive Writing: Practice and Pedagogy
CTL 3037H	Biography in Educational Contexts
CTL 3038H	Aboriginal Civilization: Language, Culture, and Identity
CTL 3039H	Literacies of Land: Narrative, Storying, and Literature
CTL 3100H	Communication and Second Language Learning in the Workplace
CTL 3101H	Language Awareness for Language Educators
CTL 3410H	Schooling in the Movies: Education as Reflected in Hollywood Films
CTL 3411H	Cinema and Historical Literacy
CTL 3412H	Shakespeare and Cultural Literacy
CTL 3413H	Reading Cinema and Cultural Identity
CTL 3414H	Historical Literacy and Popular Literacy
CTL 3415H	Educational Thought and Historical Literature
CTL 3797H	Practicum in Language and Literacies Education: Master's Level
CTL 3798H	Individual Reading and Research in Language and Literacies Education: Master's Level

CTL 3799H	Special Topics in Language and Literacies 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 3805H	Multilingualism and Plurilingualism
CTL 3806H	Sociocultural Theory and Second Language Learning
CTL 3807H	Processing Second Language Data
CTL 3808H	The Role of Instruction in Second Language Learning
CTL 3809H	Research Seminar in Sociocultural Theory and Second Language Learning
CTL 3810H	Second Language Classroom Research Methods
CTL 3997H	Practicum Second Language: Doctoral Level
CTL 3998H	Individual Reading and Research in Language and Literacies Education: Doctoral Level
CTL 3999H	Special Topics in Language and Literacies Education: Doctoral Level

Teaching

Master of Teaching

The Teaching 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 rigour, 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 also satisfy the Department of Curriculum, Teaching and Learning's additional admission requirements stated below.
- 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 indicate their preferred concentration (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior) and describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children. 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. Included in their resumé, applicants are requested to list, in chart form, the extent of their teaching experiences. The chart should include dates, location of experience, role, and number of hours working with students.
- Applicants to the Intermediate/Senior concentration must have completed a minimum of 6.0 full-course equivalents (FCEs) in the first teaching subject, and a minimum of 3.0 FCEs in the second teaching subject, from a recognized university. The 22 eligible teaching subjects are:
 - Business studies: accounting, general
 - Dramatic arts
 - English
 - French as a second language
 - Geography
 - Health and physical education
 - History
 - International languages: German, Italian, Spanish, other
 - Mathematics
 - Music: instrumental, vocal
 - Religious education
 - Science: biology, chemistry, physics, general
 - Social science: general
 - Visual arts.
- Not all eligible applicants are guaranteed admission.
- A police record check is required in a practicum setting in both Year 1 and 2 of the program.

Program Requirements

- The MT degree requires 10.0 full-course equivalents (FCEs), which includes compulsory courses, elective courses, and two practice teaching placements.
- Students must also successfully complete a major research paper 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.

Degree and Diploma Programs by Graduate Unit

- Normally, advanced standing is not granted in this program.
- The two-year program is undertaken on a full-time basis. Registration in Year 2 is contingent upon successful completion of all first-year work.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W);

Time Limit

3 years full-time

Course List

Primary/Junior Concentration

Year 1

Core Courses

CTL 7000H	Curriculum and Teaching in Literacy
CTL 7001H	Educational Professionalism, Ethics, and Law
CTL 7002H	Curriculum and Teaching in Mathematics
CTL 7004H	Practice Teaching (Year 1)
CTL 7006H	Reflective Teaching and Inquiry into Research in Education
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7011H	Child and Adolescent Development and Learning
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 702H	Curriculum and Teaching in Social Studies and Aboriginal Education

Year 2

Core Courses

CTL 7005H	Practice Teaching (Year 2)
CTL 7009H	Anti-Discriminatory Education
CTL 7010H	Issues in Numeracy and Literacy
CTL 7013H	Curriculum and Teaching in Visual Arts and Physical Education
CTL 7015H	From Student to Professional
CTL 7017H	Curriculum and Teaching in Music, Dance, and Drama
CTL 7018H	Curriculum and Teaching in Science and Environmental Education

CTL 7019H	Supporting English Language Learners
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Elective Courses

Plus 1.0 FCE	Two elective courses (area)
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Junior/Intermediate Concentration

Year 1

Core Courses

CTL 7000H	Curriculum and Teaching in Literacy
CTL 7001H	Educational Professionalism, Ethics, and the Law
CTL 7002H	Curriculum and Teaching in Mathematics
CTL 7004H	Practice Teaching (Year 1)
CTL 7006H	Reflective Teaching and Inquiry into Research in Education
CTL 7009H	Anti-Discriminatory Education
CTL 7011H	Child and Adolescent Development and Learning
CTL 7013H	Curriculum and Teaching in the Arts
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7018H	Curriculum and Teaching in Science and Environmental Education

Year 2

Core Courses

CTL 7005H	Practice Teaching (Year 2)
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7010H	Issues in Numeracy and Literacy
CTL 7015H	From Student to Professional
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 7019H	Supporting English Language Learners
CTL 702H	Curriculum and Teaching in Social Studies and Aboriginal Education

Elective Courses

Plus 0.5 FCE	One certification course selected from CTL 7050H to CTL 7059H
Plus 1.0 FCE	Two elective courses (area)

Intermediate/Senior Concentration

Year 1

Core Courses

CTL 7001H	Educational Professionalism, Ethics, and the Law
CTL 7004H	Practice Teaching (Year 1)
CTL 7006H	Reflective Teaching and Inquiry into Research in Education
CTL 7007H	Authentic Assessment
CTL 7011H	Child and Adolescent Development and Learning
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7019H	Supporting English Language Learners

Elective Courses

Plus 1.0 FCE	One teaching subject course selected from CTL 7020Y to CTL 7063Y; see full course list below
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Year 2

Core Courses

CTL 7005H	Practice Teaching (Year 2)
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7009H	Anti-Discriminatory Education
CTL 7012H	Issues in Secondary Education
CTL 7015H	From Student to Professional
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 7070H	Issues in Secondary Education 2

Elective Courses

Plus 1.0 FCE	One teaching subject course selected from CTL 7020Y to CTL 7063Y; see full course list below
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Plus 1.0 FCE	Two elective courses (area)
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The Intermediate/Senior concentration students must select one teaching subject from the following list as their first teaching subject and one as their second teaching subject:

CTL 7020Y	Curriculum and Teaching in English—Intermediate/Senior
CTL 7021Y	Curriculum and Teaching in History—Intermediate/Senior
CTL 7022Y	Curriculum and Teaching in Mathematics—Secondary
CTL 7023Y	Curriculum and Teaching in Science: Biology—Intermediate/Senior

Degree and Diploma Programs by Graduate Unit

CTL 7024Y	Curriculum and Teaching in Science: Chemistry—Intermediate/Senior
CTL 7025Y	Curriculum and Teaching in Science: Physics—Intermediate/Senior
CTL 7026Y	Curriculum and Teaching in Science: General—Intermediate/Senior
CTL 7027Y	Curriculum and Teaching in Social Science: General—Intermediate/Senior
CTL 7028Y	Curriculum and Teaching in Geography—Intermediate/Senior
CTL 7029Y	Curriculum and Teaching in Music: Instrumental—Intermediate/Senior
CTL 7030Y	Curriculum and Teaching in Music: Vocal—Intermediate/Senior
CTL 7031Y	Curriculum and Teaching in Health and Physical Education—Intermediate/Senior
CTL 7032Y	Curriculum and Teaching in Visual Arts—Intermediate/Senior
CTL 7033Y	Curriculum and Teaching in Dramatic Arts—Intermediate/Senior
CTL 7034Y	Curriculum and Teaching in French as a Second Language—Intermediate/Senior
CTL 7035Y	Curriculum and Teaching in Business Studies: General—Intermediate/Senior
CTL 7036Y	Curriculum and Teaching in Business Studies: Accounting—Intermediate/Senior
CTL 7037Y	Curriculum and Teaching in International Languages: Italian—Intermediate/Senior
CTL 7038Y	Curriculum and Teaching in International Languages: German—Intermediate/Senior
CTL 7039Y	Curriculum and Teaching in International Languages: Spanish—Intermediate/Senior
CTL 7040Y	Curriculum and Teaching in International Languages: Other—Intermediate/Senior
CTL 7041Y	Curriculum and Teaching in Religious Education—Intermediate/Senior
CTL 7799H	Special Topics in Teaching

Prerequisites: Students wishing to enrol in CTL 7023Y *Curriculum and Teaching in Science: Biology* must have completed a minimum of five full university courses in

Degree and Diploma Programs by Graduate Unit

science, with a minimum of four in the area of biology, regardless of whether biology is the first or second teaching subject.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Combined Degree Program: Bachelor of Music, Music, Stream in Music Education / Master of Teaching

For full details, please see the Music Education (Stream), Bachelor of Music / Master of Teaching entry in the Combined Degree Programs section of this calendar.

Graduate Faculty

Full Members

Bartel, Lee - BA, BMus, MEd, PhD
Beattie, Mary - BA, BA, MA, MEd, EdD
Bencze, Lawrence - BEd, BSc, MSc, PhD
Bennett, Barrie - BPHE, MEd, PhD
Bickmore, Kathy - MA, PhD
Brett, M. Clare - BA, MA, PhD (**Associate Chair, Graduate Studies**)
Cameron, Linda - BA, MEd, EdD
Campbell, Elizabeth - BA, BEd, MEd, PhD
Conle, Carola - BA, MEd, PhD
Cooper, Karyn - PhD
Cumming, Alister - BA, MA, PhD
Danesi, Marcel - BA, MA, PhD
Davie, Lynn - BA, MA, PhD
Diamond, Colin - BA, PhD
Earl, Lorna - PhD
Esmonde, Indigo - BSc, MSc, MA, 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
Gaztambide-Fernandez, Ruben - BM, MEd, EdD
Gerin-Lajoie, Diane - BSc, MA, PhD
Gitari, 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
Jang, Eunice - BA, MA, PhD
Kerekes, Julie - BA, MA, PhD
Kilbourn, Brent - BS, PhD

Kooy, Mary - BA, MA, PhD
Kosnik, Clare - DPhil, DPhil
Labrie, Normand - BA, MA, PhD
Lam, Tony - BA, MA, PhD
Levine, David - BA, MA, PhD
McCready, Lance - BA, MA, PhD
McDougall, Douglas - BM, BEd, MEd, EdD (**Chair and Graduate Chair**)
Miller, John - BA, MAT, PhD
Morgan, Cecilia Louise - BA, BA, MA, PhD
Pedretti, Erminia - BE, MEd, PhD
Piccardo, Enrica - MA, PhD
Portelli, John - MEd, PhD
Rolheiser, N Carol - BEd, MEd, PhD
Sandwell, Ruth - BA, MA, 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, MEd, PhD
Sykes, Heather - BSc, PhD
Thiessen, Dennis - AB, MEd, DPhil
Trifonas, Peter - BE, BA, PhD
Troper, Harold - BA, MA, 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
Olson, David - BEd, MEd, PhD
Silvers, Ronald - BA, MA, PhD
Swain, Merrill - BA, PhD
Traub, Ross - PhD

Associate Members

Adams St. Pierre, Elizabeth - PhD
Allen, Guy - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Bale, Jeffrey - BA, MS, PhD
Bhuyan, Rupaleem - BA, MA, PhD
Broad, Kathy - BEd, BA, MEd, PhD
Burnaby, Barbara - BA, BA, MA, PhD
Campano, H. Gerald - PhD
Chudleigh, Anne Marie - DipCS, BA, MEd
Eldridge, Jackie - BA
Fraser, Carol - EdD
Hundey, Ian - BA, MA
Lancaster, Ron - BEd, BS, MMath
Levisohn, John - PhD
Marks Krpan, Cathy - BEd, MEd, EdD
McGill, Gael-Christophe - BA, PhD
Nasmith, Louise - AB, AB, MDCM
Nayer, Marla - BSc, MEd
Niyozov, Sarfarozi - MEd, MA, PhD
Radakovic, Nenad - BS, MEd, PhD
Rehner, Katherine - BA, BE, MEd, PhD
Rossi, Miriam Frances - BSc, MSc, MD, MD, MD
Scarfo, Nick - BA
Seller, Wayne - BA, MEd
Shore, Lesley - DipEd, BA, MEd, EdD
Steele, Jeffrey - BA, MA, PhD
Stewart Rose, Leslie - BEd, BM, MA, EdD
Stiegelbauer, Suzanne - BS, MA, MA, PhD
Styres, Sandra - BEd, MEd, PhD
Turnbull, Miles - BA, AM
Woodruff, Earl - MA, PhD
Zandvliet, David - BSc, MA, PhD

Dentistry

Faculty Affiliation

Dentistry

Degree Programs

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 Engineering**
 - Dentistry, MSc, PhD
3. **Cardiovascular Sciences**
 - Dentistry, MSc, PhD
4. **Global Health**
 - Dentistry, PhD
5. **Musculoskeletal Sciences**
 - Dentistry, MSc, PhD
6. **Neuroscience**
 - Dentistry, MSc, PhD
7. **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 MSc and the PhD 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.dentistry.utoronto.ca

Email: gradstudies@dentistry.utoronto.ca

Telephone: (416) 979-4901 ext. 1-4482

Fax: (416) 979-4944

Student Services Office
University of Toronto
Room 104, 124 Edward Street
Toronto, Ontario M5G 1G6
Canada

Degree Programs Dentistry

Master of Science

1. Thesis Option

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Dentistry's additional admission requirements stated below.
- An appropriate bachelor of science, doctor of dental surgery, or an equivalent degree, with at least a 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 Faculty of Dentistry'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 courses DEN 1001Y⁰ *Seminars in Oral Health Sciences* and DEN 1010H *Research Ethics* 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 the oral defence of the written thesis.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

12 sessions part-time

Time Limit

3 years full-time;

6 years part-time

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

2. Specialist Dental Training: Thesis Option

The Faculty of Dentistry 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Dentistry's additional admission requirements stated below.
- Doctor of Dental Surgery (DDS) or an equivalent degree with at least a 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 program requirements as necessary to meet the Commission on Dental Accreditation of Canada 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 1001Y⁰ *Seminars in Oral Health Sciences* for a minimum of one year.
- Completion of DEN 1010H *Research Ethics*.
- Upon completion of all program requirements, students are eligible for the MSc degree and certification in the chosen dental specialty. For further information, consult the Faculty of Dentistry calendar or website.

Program Length

2 to 4 years full-time; varies by graduate specialty program undertaken and must conform to the accreditation requirements of the Commission on Dental Accreditation of Canada.

Time Limit

3 to 5 years full-time depending on specialty

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

3. Specialist Dental Training: Coursework-Only Option

The Faculty of Dentistry 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Dentistry's additional admission requirements stated below.
- DDS or an equivalent degree, with at least a B+ standing in the final year from a recognized university. For the MSc with training in Dental Public Health, dental hygienist 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 program requirements as necessary to meet the Commission on Dental Accreditation of Canada 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 1001Y⁰ *Seminars in Oral Health Sciences* for a minimum of one year.
- Completion of DEN 1010H *Research Ethics*.
- 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 certification in the chosen dental specialty. For further information, consult the Faculty of Dentistry calendar or website.

Program Length

2 to 4 years full-time; varies by graduate specialty program undertaken and must conform to the accreditation requirements of the Commission on Dental Accreditation of Canada.

Time Limit

3 to 5 years full-time depending on specialty

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

Degree and Diploma Programs by Graduate Unit

circumstances 24 months—after entry into the MSc program for registrants in the MSc thesis option. Regulations governing such transfers are available from the Faculty 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Dentistry's additional admission requirements stated below.
- Students are normally admitted to a four-year PhD program with an appropriate master's degree, or equivalent, with at least an A- standing in the final year from a recognized university in a discipline appropriate to the intended field of doctoral study. However, under exceptional circumstances, the Faculty 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 (DDS) degree with at least an A- standing from a recognized university.

Program Requirements

- Students undertake customized programs, approved by an advisory committee and the Associate Dean of Graduate and Postgraduate Studies, comprising advanced study and original research culminating in the defence of a thesis.
- Minimum course requirements: completion of the courses DEN 1100Y⁰ *Seminars in Oral Health Sciences* and DEN 1010H *Research Ethics*, 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 Faculty'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 Associate Dean of Graduate and Postgraduate Studies, who will appoint a committee to plan and arrange their coursework and research programs. The committee and the Associate Dean must approve the entire course of study. The committee will closely monitor the student's ability to sustain satisfactory performance and will report annually to the Associate Dean for approval and continuance of candidacy.

Program Length

4 years full-time; 5 years direct-entry; 5 years transfer-from-MSc

Time Limit

6 years full-time; 7 years direct-entry; 7 years transfer-from-MSc

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

2. Full-Time Program Combined with Dental Specialty Training Option

The Faculty of Dentistry 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 clinicians/scientists, aspiring to teaching and research careers in the dental field, are considered on an individual basis.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Dentistry's additional admission requirements stated below.
- DDS degree with at least an A- standing in the final year 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 courses DEN 1100Y⁰ *Seminars in Oral Health Sciences* and DEN 1010H *Research Ethics*, 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

Degree and Diploma Programs by Graduate Unit

includes successful completion of the courses DEN 1014H *Clinical Epidemiology and Evidence-Based Care* and DEN 1015H *Introduction to Biostatistics*.

- Consult with the Associate Dean of Graduate and Postgraduate Studies, 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 committee will closely monitor the student's ability to sustain satisfactory performance and will report semi-annually to the Associate Dean of Graduate and Postgraduate Studies 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 a minimum of 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. For further information, please consult the Faculty of Dentistry calendar or website.

Program Length

Varies by specialty; up to 6 years full-time

Time Limit

Varies by specialty; up to 8 years full-time

3. Flexible-Time Option

The Faculty of Dentistry 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Dentistry's additional admission requirements stated below.
- 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 is 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; and
 - 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 Associate Dean of Graduate and Postgraduate Studies, will be in place at program commencement. The Associate Dean 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 1100Y⁰ *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.

Program Length

8 years flexible-time depending on specialty

Time Limit

10 years flexible-time

Degree and Diploma Programs by Graduate Unit

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

Course List

Not all courses are offered every year. The Faculty of Dentistry should be consulted each session as to course offerings.

Core Courses

DEN 1001Y ⁰	Seminars in Oral Health Sciences (Credit/No Credit)
DEN 1010H	Research Ethics
DEN 1015H	Introduction to Biostatistics
DEN 1100Y ⁰	Seminars in Oral Health Sciences (Credit/No Credit)

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

General Courses

DEN 1014H	Clinical Epidemiology and Evidence-Based Care
DEN 1022H	Investigating Pathogenic Biofilms
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 1098H	Reading Course in Oral Health Sciences

Courses for Students in MSc/PhD Specialist Dental Training Programs

DEN 1002H	Oral Pathology
DEN 1003H	Preventive Dentistry
DEN 1006Y	Seminars in Dental Public Health
DEN 1007H	Oral Radiology
DEN 1011Y ⁰	Advanced Seminars in Oral Pathology
DEN 1012Y ⁰	Oral Medicine
DEN 1013Y ⁰	Oral Surgical Pathology
DEN 1016H	Occlusion: Function and Dysfunction
DEN 1017H	Temporomandibular Disorders

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 1051Y	Oral Epidemiology
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 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 1071H	Medical Anaesthesia Seminars I
DEN 1072H	Medical Anaesthesia Seminars II
DEN 1073Y	Dental Anaesthesia Graduate Seminars
DEN 1074Y	Foundations of Medicine as Applied to Dental Anaesthesia
DEN 1075Y	General Anaesthesia for Dentistry—Paediatric
DEN 1076H	General Anaesthesia for Medical Procedures—Adult I
DEN 1077H	General Anaesthesia for Medical Procedures—Adult II
DEN 1078H	General Anaesthesia for Dental Procedures—Adult I
DEN 1079H	General Anaesthesia for Dental Procedures—Adult II
DEN 1083Y	Experiences in Clinical Medicine
DEN 1084H ⁺	Experiences in Clinical Teaching I (Credit/No Credit)
DEN 1085H ⁺	Experiences in Clinical Teaching II (Credit/No Credit)
DEN 1086H ⁺	Experiences in Clinical Teaching III (Credit/No Credit)
DEN 1087Y	Fundamentals of Dental Anaesthesia I
DEN 1088Y	Fundamentals of Dental Anaesthesia II
DEN 1089Y	Fundamentals of Dental Anaesthesia III
DEN 1090H	Inhalation and Oral Minimal and Moderate Sedation for Dental Procedures (Credit/No Credit)
DEN 1091Y ⁰	Parenteral Moderate Sedation for Dental Procedures (Credit/No Credit)
DEN 1094H ⁺	Advanced Oral Radiology I (co-requisite: DEN 1007H)
DEN 1095H ⁺	Advanced Oral Radiology II (prerequisite: DEN 1094Y)
DEN 1096H ⁺	Advanced Oral Radiology III (prerequisite: DEN 1095Y)
DEN 1097Y ⁰	Advanced Oral Radiology (co-requisite: DEN 1007H)
DEN 2001Y	Orthodontics 1: Advanced Orthodontic Diagnosis and Treatment Planning

Degree and Diploma Programs by Graduate Unit

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 3004Y	Oral and Maxillofacial Surgery 4: Applied Surgical Anatomy of the Head and Neck
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

Degree and Diploma Programs by Graduate Unit

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
DEN 5004Y ⁰	Single Tooth Replacements with Implant-Supported Prosthesis
DEN 5005H ⁺	Introduction to Graduate Endodontics

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

Agur, Anne - BSc, MSc, PhD
Aubin, Jane - BSc, PhD
Azarpazhooh, Amir - MSc, DDS, PhD
Bressmann, Tim - MPH, PhD
Casas, Michael - MSc, DDS
Casper, Robert - MD
Clokier, Cameron - DDS, PhD
Cvitkovitch, Dennis - BSc, MSc, PhD
Davies, John - BSc, BDS, 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
Ganss, Bernhard - BSc, MSc, DrRerNat
Glogauer, Michael - DDS, PhD
Gong, Siew-Ging - MA, MScD, BDS, PhD
Grynpas, Marc - MSc, PhD
Haas, Daniel - BSc, BScD, DDS, PhD (**Dean**)
Hinz, J. Boris - PhD
Jokstad, Asbjorn - MS, DDS, PhD
Kenny, David - BSc, DDS
Kishen, Anil - BDS, MDS, PhD
Lam, Ernest - BSc, MSc, DMD, PhD (**Coordinator of Graduate Studies**)
Lawrence, Herenia - MSc, DDS, PhD
Levesque, Celine - BSc, MSc, PhD
Manolson, Morris - BS, PhD (**Associate Dean, Graduate and Postgraduate Studies**)
McCulloch, Christopher - BSc, DDS, PhD
Mock, David - DDS, PhD, FRCDC

Quinonez, Carlos R. - MSc, DMD, PhD
Santerre, Paul - BSc, MSc, PhD
Seltzer, Ze'ev - DMD, BMedSc
Sessle, Barry - BS, MDS, BDS, PhD
Sherman, Philip - MD
Simmons, Craig - BSc, MSc, PhD
Sone, Eli - BSc, MS, PhD
Tenenbaum, Howard - DipPerio, DDS, PhD

Members Emeriti

Ellen, Richard - DDS
Fenton, Aaron - DipPerio, MS, DDS
Liebgott, Bernard - DDS, MScD, PhD
Limeback, Hardy - BSc, DDS, PhD
Mayhall, John - BA, MA, AM, DDS, PhD
McComb, Dorothy - BDS, MScD
McComb, Richard - MSc, BDS
Pilliar, Robert - BASc, PhD
Ross, Robert Bruce - MSc, DDS, FRCDC
Titley, Keith - DDS, BDS, MScD
Watson, Philip - DDS, BDS, MScD
Zarb, George - BScD, MS, DDS

Associate Members

Alkumru, Hasan - DDS, PhD
Andrews, Paul - BSc, MSc, DDS
Barrett, Edward - BSc, MSc, DDS
Barzilay, Issac - MS, DDS
Basrani, Bettina - PhD
Bradley, Grace - MSc, DDS
Chvartzaid, David - MSc, MSc, DDS
Dao, Thuan - MSc, DMD, PhD
de Souza, Grace M - MS, DDS, PhD
Dempster, Laura - BScD, MSc, PhD
Diwan, Randa - BDS, PhD
El-Badrawy, Wafa - MSc, BDS
Goldberg, Michael - DipPerio, BSc, MSc, DDS
Holmes, Howard - MSc, DDS, DDS
Iakounine, Alexandre - MSc, ScD
Judd, Peter - BSc, MS, DDS
Kulkarni, Gajanan - LLB, MSc, BDS, PhD
Lai, Jim Yuan - BSc, MSc, DMD, FRCDC
Laing Gibbard, Leslie - BSc, BEd, MSc, MS, MSc, DDS, PhD
Lam, David - DDS, MD, PhD
Laporte, Audrey - BA, MA, PhD
Leong, Iona - BSc, MSc, BDS
Metaxas, Angelos - DipOrH, MSc, DDS, DDS
Nainar, Hashim - BDS, MScD
Pharoah, Michael - BSc, MSc, DDS
Prakki, Anuradha - MSc, DDS, PhD
Sigal, Michael - MSc, DDS
Suri, Sunjay - BDS, MDS
Sutherland, Susan - BScN, MSc, DDS
Tam, Laura - BSc, MSc, DDS
Tompson, Bryan - DipOrH, DDS

Design and Manufacturing

Effective September 2015, admissions to this program have been suspended.

Faculty Affiliation

Applied Science and Engineering

Participating Degree Program at the University of Toronto

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 four Ontario universities: University of Toronto, McMaster University, Queen's University, and Western University. 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 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, 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
University of Toronto
Toronto, Ontario M5S 3G8
Canada

Degree and Diploma Programs by Graduate Unit

Email: admi@mie.utoronto.ca
Telephone: (416) 978-8823
Fax: (416) 978-7753

For information regarding ADMI admission at the University of Toronto, visit in person:

Graduate Studies Office
Department of Mechanical and Industrial Engineering
Room 108, Mechanical Building
5 King's College Road

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
40 Sheppard Avenue West, Suite 101
Toronto, Ontario M2N 6K9
Canada

Web: www.admicanada.com
Email: info@admicanada.com
Telephone: (647) 259-2261

Degree Program

Master of Engineering in Design and Manufacturing

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Students entering the program at the University of Toronto are required to register in the Department of Mechanical and Industrial Engineering. Applicants must also satisfy the program's additional admission requirements stated below.
- 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.

Degree and Diploma Programs by Graduate Unit

- Participants must complete a minimum of two ADMI courses per calendar year to maintain program registration status.

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 and Industrial Engineering.

Drama, Theatre and Performance Studies

Faculty Affiliation

Arts and Science

Degree Programs

Drama, Theatre and Performance Studies

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, Theatre and Performance Studies, MA, PhD
2. **Jewish Studies**
 - Drama, Theatre and Performance Studies, MA, PhD
3. **Knowledge Media Design**
 - Drama, Theatre and Performance Studies, MA, PhD
4. **Sexual Diversity Studies**
 - Drama, Theatre and Performance Studies, MA, PhD
5. **South Asian Studies**
 - Drama, Theatre and Performance Studies, MA, PhD
6. **Women and Gender Studies**
 - Drama, Theatre and Performance Studies, MA, PhD

Overview

The Centre for Drama, Theatre and Performance Studies 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 performance, dramaturgy, and praxis as research. Within the parameters of these fields, the centre supports research in such areas as performance analysis and reception; Canadian, American, international, and intercultural theatre; Elizabethan and Restoration staging practices; historiography and performance; acting and modern staging theories and practices; performance aesthetics and politics; as well as play and project development.

A new aspect in the curriculum focuses on the impact of digital culture on theatre practice and research. Through affiliations with other graduate units, students may

Degree and Diploma Programs by Graduate Unit

also take courses in drama, theatre, and performance from other departments, centres, and institutes across the University. Graduate students build on the kind of foundation that would normally be laid in undergraduate studies 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 Theatre and the Luella Massey Studio Theatre.

Application details are available on the centre's website.

Contact and Address

Web: <http://dramacentre.utoronto.ca/>

Email:

General: graduate.drama@utoronto.ca

Associate Director of Graduate Studies:

gc.graddrama@utoronto.ca

Telephone: (416) 978-7980

Fax: (416) 971-1378

Centre for Drama, Theatre and Performance Studies
University of Toronto
Koffler Student Services Centre
214 College Street
Toronto, Ontario M5T 2Z9
Canada

Degree Programs

Drama, Theatre and Performance Studies

Master of Arts

Minimum Admission Requirements

- Applicants for admission to the centre are considered under the General Regulations of the School of Graduate Studies. Admissions are selective; possession of minimum qualifications does not guarantee acceptance. Applicants must also satisfy the Centre for Drama, Theatre and Performance Studies' additional admission requirements stated below.
- 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 Associate Director for further information.

Program Requirements

- A minimum of 4.0 full-course equivalents (FCEs), as approved by the centre, including both DRA 1003H *Introduction to Theatre, Drama, and Performance Studies* and DRA 5000H *Praxis*.

Degree and Diploma Programs by Graduate Unit

- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants for admission to the Centre for Drama, Theatre and Performance Studies are considered under the General Regulations of the School of Graduate Studies. Admissions are selective; possession of minimum qualifications does not guarantee acceptance. Applicants must also satisfy the centre's additional admission requirements stated below.
- Applications received after January 15 may be too late for consideration. Contact the Associate Director for further information.
- Applicants may be accepted into the PhD program via one of two routes:
 1. **With a master of arts degree:** an MA in Drama, Theatre and Performance Studies 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 this centre must be recommended for further study by the instructors whose courses they have taken. Applicants holding the MA of this University in another subject or its equivalent from another university will be considered for admission to the PhD program in light of their previous work and its relation to the centre's requirements; additional coursework may be required.
 2. **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 Associate Director of the centre. Admission will be conditional upon satisfactory recommendation.
- Applications must be accompanied by a statement of research intent and curriculum vitae (CV).

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 3.0 full-course equivalents (FCEs) in addition to the PhD requirements listed above, including DRA 1003H for a total of 7.0 FCEs, and satisfy the centre's dramaturgical and performance practice requirements as determined on admission;
 - must maintain an A- average in their first 3.0 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.

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 Associate Director.

Core Program

DRA 1001H	History of the Theatre I
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Degree and Diploma Programs by Graduate Unit

DRA 1002H	History of the Theatre II
DRA 1003H	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
DRA 1105H	Performing History
DRA 3019H	Shakespeare in Modern Production
DRA 3021H	Elizabethan Performance: History and Practice
DRA 3120H	The Way of the Actress
DRA 3211H	The Performing Body
DRA 3901H	Topics in Theatre, Drama, and Performance
DRA 3902H	Topics in Theatre, Drama, and Performance
DRA 3903H	Topics in Theatre, Drama, and Performance
DRA 3904H	Topics in Theatre, Drama, and Performance
DRA 3905H	Topics in Theatre, Drama, and Performance
DRA 3906H	Topics in Theatre, Drama, and Performance
DRA 3907H	Topics in Theatre, Drama, and Performance
DRA 3908H	Topics in Theatre, Drama, and Performance
DRA 4057H	Women Script History
DRA 4063H	Topics in Performance and Popular Culture
DRA 4090Y	Directed Reading/Theatre Research
DRA 4091H	Directed Reading/Theatre Research
DRA 5000H	Praxis
DRA 5001Y	Theatre Practice II (Credit/No Credit)
DRA 6000Y	Research Seminar (Credit/No Credit)

Cross-Listed Courses

The Centre for Drama, Theatre and Performance Studies also cross-lists courses offered by other graduate units of the University of Toronto. A listing of approved 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 Associate Director.

Graduate Faculty

Full Members

Ackerman, Alan - BA, MA, PhD
 Ambros, Veronika - MA, PhD
 Astington, John - BA, MA, PhD
 Bancheri, Salvatore - BA, MA, PhD
 Barton, Bruce - BA, MA, PhD
 Brown, Elspeth - MA, PhD
 Budde, Antje - PhD
 Clark, Caryl - BMus, MA, PhD
 Clarke, George Elliott - BA, MA, PhD
 Cobb, Michael - BA, MA, AM, PhD
 Columpar, Corinn - BA, PhD
 Copeland, Nancy - BA, MA, PhD
 Corman, Brian - AB, AM, PhD
 Eisenbichler, Konrad - BA, MA, PhD
 Esonwanne, Uzoma - BA, MA, PhD
 Fenner, Angelica - BA, MA, PhD
 Gallagher, Kathleen Marie - PhD
 Johnson, Stephen - BA, MA, PhD (**Director**)
 Keil, Charles - BA, MA, PhD
 Kingwell, Mark - BA, MA, MPH, DFA, PhD
 Kleber, Pia - BA, MA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Legge, Elizabeth MM - BA, BA, MA, PhD
 Lettieri, Michael - BA, MA, PhD
 Lopez, Jeremy - BA, MA, DPhil
 Maurice, Alice - BA, DPhil
 Michelucci, Pascal - BA, MA, PhD
 Most, Andrea - BA, MA, PhD
 Parker, Mary Ann - BA, MM, PhD, ARCT
 Pietropaolo, Domenico - BSc, MA, PhD
 Quayson, Ato - BA, PhD
 Rankin, Katharine - BA, MA, PhD
 Revermann, Martin - PhD
 Rodriguez, Nestor - BA, PhD
 Ross, Jill - BA, MA, PhD
 Rubright, Marjorie - AB, MA, DLitt
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Sammond, Nicholas - BA, MA, PhD
 Soldovieri, Stefan - BA, MA, PhD
 Somigli, Luca - PhD
 Sperdakos, Paula - BA, MA, PhD
 Syme, Holger Schott - BA, AM, PhD
 Thomson, H. Leslie - BA, MA, PhD
 Trojanowska, Tamara - MA, PhD

Members Emeriti

Armatage, Kay - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Klausner, David - AB, PhD
Lancashire, Anne - BA, AM, PhD
Levenson, Jill - PhD
MacLean, Sarah - BA, MA, PhD
Plant, Richard - PhD
Sidnell, Michael - BA, MA, PhD

Associate Members

Bhatia, Nandi - PhD
Di Paolantonio, Mario - AM, PhD, PhD
Filewod, Alan - PhD
Georgis, Dina - PhD
Goldstein, Tara - BA, PhD
Hill, Colin - BA, MA, PhD
Houston, Andrew - DPhil
King, Robert - AB, MA, PhD
Knowles, Richard - DPhil
Lindgren, Allana - PhD
Odom, Selma - PhD
Ruti, Marjut - BA, MA, PhD
Sergi, Matthew - BFA, PhD
Solga, Kimberly - PhD
Switzky, Lawrence - BA, MA, PhD
Warner, Mary Jane - MA, PhD

Earth Sciences

Faculty Affiliation

Arts and Science

Degree Programs

Earth Sciences

MASc

MSc

PhD

Collaborative Programs

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

1. **Earth Sciences and Physics**
 - Earth Sciences, MSc, PhD
2. **Environmental Studies**
 - Earth Sciences, MASc, MSc, PhD

Overview

The Department of Earth Sciences accepts students for advanced degrees—**Master of Applied Science** (MASc), **Master of Science** (MSc), and **Doctor of Philosophy** (PhD)—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, School of the 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.es.utoronto.ca

Email: slotkin@es.utoronto.ca

Telephone: (416) 978-1240

Fax: (416) 978-3938

Department of Earth Sciences
University of Toronto
Earth Sciences Centre
Room 1066, 22 Russell Street
Toronto, Ontario M5S 3B1
Canada

Degree Programs

Earth Sciences

Master of Applied Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School Graduate Studies. Applicants must also satisfy the Department of Earth Sciences' additional admission requirements stated below.
- 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 (ESS 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Earth Sciences' additional admission requirements stated below.
- 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 (ESS 1101H), the all-course research project (ESS 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 (ESS 1101H), the research project (ESS 3603Y⁺), research presentation (ESS 3601Y⁺), one of the six

Degree and Diploma Programs by Graduate Unit

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-earth science courses.
- Students may proceed on a part-time basis.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

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

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Earth Sciences' additional admission requirements stated below.
- 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 full-course equivalents (FCEs). The additional half course may be taken in departments other than Earth Sciences 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).

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 the current year's offerings.

ESS 1100Y	Seminars in Geology Y
ESS 1101H	Graduate Seminars in Geology
ESS 1423H	Mineralogy
ESS 1430H	Basin Analysis
ESS 1436H	Paleoecological Assessment of Environmental Change
ESS 1440H	Petrology
ESS 1441H	Remote Sensing of Earth and the Terrestrial Planets
ESS 1442H	Introductory Mineral Deposits I
ESS 1443H	Introductory Mineral Deposits II
ESS 1445H	Global Tectonics
ESS 1450H	Contaminant Fate and Transport in Subsurface Environments
ESS 2222H	Tectonics and Planetary Dynamics
ESS 2302H	Mineral Resources
ESS 2303H	Earth Systems Evolution
ESS 2304H	Geochemistry
ESS 2608H	Advanced Glacial Sedimentology
ESS 2704H	Isotope Geochemistry
ESS 2708H	Characterization of Geological Materials
ESS 3601Y ⁺	Research Presentation
ESS 3602H	Seminars in Geology
ESS 3603Y ⁺	Research Project
ESS 3604H	Selected Topics in Geology
ESS 3605H	Selected Topics in Geochemistry
ESS 3606H	Selected Topics Earth System Evolution
ESS 3607H	Selected Topics in Geodynamics

ESS 3608H	All-Course Research Project
JGN 2607H	Advanced Techniques in Hydrogeology

Additional courses related to geophysics can be found in the Graduate Department of Physics course listings.

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

Graduate Faculty

Full Members

Bailey, Richard - BSc, PhD
 Bollmann, Jorg - DrRerNat
 Brennan, James - BSc, PhD
 Caron, Jean-Bernard - MSc, PhD
 Chazan, Michael - BA, MA, PhD
 Cowling, Sharon - BSc, MSc, PhD
 Davis, Donald - BSc, MSc, PhD
 Desloges, Joseph - BES, MSc, PhD
 Diamond, Miriam - MSc, MSc, PhD
 Dittrich, Maria B. - BES, MSc, PhD
 Eyles, Nicholas - BSc, MSc, PhD, DSc
 Ferris, Grant - BSc, PhD
 Finkelstein, Sarah - AB, MPH, PhD
 Ghent, Rebecca - BA, MSc, PhD (**Associate Chair, Graduate Studies**)
 Gorton, Michael - BSc, BSc, PhD
 Halfar, Jochen - PhD
 Head, Martin - BSc
 Henderson, Grant - PhD
 Howard, Kenneth - BSc, MSc, PhD
 Laflamme, Marc - BS, PhD
 Liu, Qinya - PhD
 Miall, Andrew - BSc, PhD
 Milkereit, Bernd - DrRerNat
 Mungall, James - BSc, MSc, PhD
 Pysklywec, Russell - BSc, MSc, PhD (**Chair and Graduate Chair**)
 Schoenbohm, Lindsay - PhD
 Schulze, Daniel - PhD
 Sherwood Lollar, Barbara - PhD
 Simpson, Myrna - BS, DPhil
 Spooner, Edward - BA, PhD
 Tait, Kimberly - BSc, MSc, PhD
 Wells, Mathew - BS, DPhil
 Wortmann, Ulrich - BSc, MSc, PhD
 Young, R. Paul - BSc, MSc, PhD, CEng
 Zajacz, Zoltan - MASc, PhD

Members Emeriti

Anderson, Gregor - BEng, MASc, PhD
 Halls, Henry - BSc, MSc, PhD
 Robin, Pierre-Yves F - MSc, PhD
 Rucklidge, John - BA, PhD

Degree and Diploma Programs by Graduate Unit

Schwerdtner, Walfried - DiplGeol, BSc, DrRerNat
 Scott, Steven - BSc, MSc, PhD
 Westgate, John - PhD
 Wicks, Frederick - PhD

Associate Members

Bank, Carl-Georg - MSc, PhD
 Barnett, Peter - MSc, PhD
 Jantunen, Liisa - PhD
 Kennedy, Chris - BASc, PhD
 Lowman, Julian - BSc, MS, DPhil
 Rudkin, David - BSc

East Asian Studies

Faculty Affiliation

Arts and Science

Degree Programs

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
5. **Women and Gender 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: natasja.vanderberg@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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of East Asian Studies' additional admission requirements stated below.

- Successful completion of an appropriate bachelor's degree from a recognized university with a major in East Asian studies and at least a 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 knowledge of the relevant languages.
- A 10- to 15-page sample of the applicant's academic writing in English.
- Non-native speakers of English are required to take the Test of English as a Foreign Language (TOEFL). Applicants taking the paper-based TOEFL must achieve a minimum score of 600 and 5 on the Test of Written English (TWE). Applicants taking the Internet-based TOEFL 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.

Program Requirements

- The program may be completed through one of two routes:
 1. **Non-language courses:** normally 4.0 full-course equivalents (FCEs) with at least 2.0 FCEs in EAS courses.
 2. **Non-language courses plus thesis:** thesis must be written with the guidance of a supervisor. Normally 4.0 FCEs as follows:
 - 3.0 FCEs of coursework including at least 1.5 FCEs in EAS courses.
 - Thesis counts as 1.0 FCE.
- Students are permitted to take some of their courses in other departments.
- EAS 2020Y *Critical Approaches to East Asia* is a required course.
- Courses are selected in consultation with the Coordinator of Graduate Studies.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Applicants must also satisfy the Department of East Asian Studies' additional admission requirements stated below.

- 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 10- to 15-page sample of the applicant's academic writing in English.
- Non-native speakers of English are required to take the Test of English as a Foreign Language (TOEFL). Applicants taking the paper-based TOEFL must achieve a minimum score of 600 and 5 on the Test of Written English (TWE). Applicants taking the Internet-based TOEFL 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.

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 are normally completed by the end of the second year of the program, maintaining an average of at least A-.
- EAS 2020Y *Critical Approaches to East Asia* is a required course if not taken previously. If EAS 2020Y has previously been taken, students are required to take an additional 1.0 FCE.
- Students are permitted to take some of their courses in other departments.
- A comprehensive qualifying examination is undertaken, with the guidance of a supervisory committee, within three months of completion of coursework and must be taken by November 30 of Year 3 of study. The committee will provide the student with three questions (in a Major, Minor, and Adjacent field), for which the student must provide written answers within seven days. Within one week after submitting the answers, the student will meet with the committee to provide an oral defence of the answers. The committee will decide whether the student has passed or failed in each of the

Degree and Diploma Programs by Graduate Unit

three fields on the basis of the written answers and oral defence taken together. If the student fails the Major field, he or she will be given one more chance to pass an entirely new examination, within three months of the first attempt. If the student passes the Major field but fails either one or both of the Minor and Adjacent fields, then he or she will be given one more chance to take an examination consisting of new questions in the fields failed, within six weeks of the first attempt. Third attempts are not permitted.

- 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 Year 3 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.
- Within one to three months after completing the comprehensive examination, students are required to produce a dissertation prospectus to be approved by their supervisory committee. The committee will meet to consider the dissertation prospectus and provide the student with feedback. The student will make the revisions and submit the prospectus to his/her supervisor for final approval, which must be given by the end of the student's third year. After the dissertation prospectus is approved, the student advances to candidacy.
- After completing all of the above requirements, 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.

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 1101Y	Classical Chinese I
EAS 1118H	Translation and Modernity
EAS 1180H	Environmental Criticism
EAS 1181H	Questioning Humanities: 20th Century China
EAS 1335H	Violence, Justice, the Human

Degree and Diploma Programs by Graduate Unit

EAS 1337H	Diaspora and Transpacific Studies
EAS 1339H	Topics in Chinese Art Theories
EAS 1419H	Chinese Cultural Studies Seminar: May Fourth
EAS 1424H	Multitude, Labour Power, Population
EAS 1432H	Korean Cultural Studies Seminar
EAS 1433H	Surplus Populations in East Asia and in Theory
EAS 1441H	Advanced Topics in Japanese Cinema
EAS 1474H	US and Canada's Wars in East Asia
EAS 1475H	Contemporary Cultural Theories
EAS 2020Y	Critical Approaches to East Asia
EAS 2323H	Rethinking Chinese Cultural History
COL 3380Y	Globalization and Culture

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 1175H	20th Century East Asia in Comparative World History
EAS 1176H	Comparative Historical Socialisms in East Asia and Beyond
EAS 1297H	Texts, Images, and Objects in East Asia
EAS 1409H	Cities in Premodern China
EAS 1411H	Art and Archaeology of Early China
EAS 1412H	Special Topics in Archaeology of Ancient 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 and Marx
EAS 1429H	Topics in Marxism and Japan
EAS 1430H	Introduction to the Countryside
EAS 1431H	Mass Culture, Capitalist Crisis, Fascism in Modern Japan
EAS 1434H	Karatani's <i>The Structure of World History</i> and the Politics of Marx
EAS 1466H	History, Everyday Life, and North Korea

EAS 1675Y	Topics in Chinese Social and Intellectual History 1500–1950
EAS 2008H	Japan's Imperial System

Language

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)
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 1626Y	Academic and Professional Korean (Credit/No Credit)
EAS 1631Y	Accelerated Modern Standard Korean 1 and 2 (Credit/No Credit)
EAS 1632H	Accelerated Modern Standard Korean 2 (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 1811Y	Modern Standard Chinese I for Students With Background in Chinese (Credit/No Credit)
EAS 1812H	Modern Standard Chinese II for Students With Background in Chinese (Credit/No Credit)

EAS 1814H	Modern Standard Chinese IVa (Credit/No Credit)
EAS 1815H	Modern Standard Chinese IVb (Credit/No Credit)

Literature

EAS 1137H,Y	Chinese Poetics
EAS 1151H	Chinese Poetry I
EAS 1152H	Chinese Poetry II
EAS 1182H	Writing as Technology in Modern China
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
EAS 1467H	Photographic Narratives of Japan
COL 5101H	Diasporic Cities: Itinerant Narratives of Metropolises by Travellers and Expatriates
JLA 1456H	Japan As Seen By ?: Reference, Apparatus, Operation
JLA 5082H	The Rhetoric of Photography

Philosophy and Religion

EAS 1225H	Self-Cultivation and Health in Chinese Philosophy
EAS 1226H	Topics in Modern Chinese Philosophy
EAS 1227H	Topics in Chinese Religions
EAS 1228H	Topics in Chinese Ethical Theories
EAS 1229H	Topics in Chinese Aesthetics
EAS 1438H	New Approaches to Classical Daoism
EAS 1601Y	Seminar in East Asian Buddhism

Politics

POL 2416Y	Politics and Society in Contemporary China
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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

Degree and Diploma Programs by Graduate Unit

EAS 1313Y	Japanese Source Materials and Reference Works
EAS 1320Y	Special Topics in Japanese Culture
EAS 1323Y	Readings in Japanese Documentary Source Materials
EAS 1497H	Special Topics in East Asian Studies
EAS 1999Y	East Asian Studies Bibliography, Reference, and Research Methodology

Graduate Faculty

Full Members

Cazdyn, Eric - BA, MA, PhD
 Chin, Carol - BA, MA, PhD
 Crawford, Gary - BSc, MA, PhD
 Feng, Linda Rui - BA, MA, MPH, DPhil
 Hsiung, Ping-Chun - PhD
 Kawashima, Ken - BA, MA, PhD
 Keirstead, Thomas - BA, MA, PhD (**Chair and Graduate Chair**)
 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, MA, MPH, PhD (**Graduate Coordinator**)
 Purtle, Jennifer - BA, MPH, MA, PhD
 Sakaki, Atsuko - BA, MA, PhD
 Sanders, Graham - BA, PhD
 Schmid, Andre - BA, MA, PhD
 Shen, Vincent Tsing-song - MA, PhD
 Tran, Nhung - MA, PhD, CRC
 Wu, Yiching - BA, MA, MA, PhD
 Yoneyama, Lisa - BA, MA, PhD

Members Emeriti

Arntzen, Sonja - BA, MA, PhD
 Donnelly, Michael - BSc, MA, PhD
 Falkenheim, Victor - AB, MA, PhD
 Guisso, Richard W L - DPhil
 Liman, Anthony - MA
 Lynn, Richard - BA, MA, PhD
 Nakajima, Kazuko - BA, MA, MPH
 Sandahl, Stella - MA, MA, PhD
 Schlepp, Wayne - BSc, BA, PhD
 Tsukimura, Reiko - BA, MA, PhD
 Waterhouse, David - BA, LRAM, MA, MA

Associate Members

Fujitani, Takashi - BA, MA, PhD
 Goodman, Amanda - BA, MA, PhD
 Peng, Ito - BSW, BSc, MA, PhD
 Rupprecht, Hsiao-Wei - BA, MA, MLS, PhD
 Shen, Chen - BA, PhD

Degree and Diploma Programs by Graduate Unit

Virag, Curie - AB, MA, PhD

Wong, Joseph - BA, MA, PhD, CRC

Zhong, Yurou - BA, MA, MPH, DPhil

Ecology and Evolutionary Biology

Faculty Affiliation

Arts and Science

Degree Programs

Ecology and Evolutionary Biology

MSc

PhD

Collaborative Programs

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

1. **Environmental Studies**
 - Ecology and Evolutionary Biology, PhD
2. **Genome Biology and Bioinformatics**
 - Ecology and Evolutionary Biology, PhD
3. **Human Development**
 - 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
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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 admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Ecology and Evolutionary Biology's additional admission requirements stated below.
- 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.
- Applicants will not be admitted until they have secured an agreement with a graduate faculty member to sponsor and supervise the student's research.

Program Requirements

- Completion of 0.5 graduate full-course equivalent (FCE) chosen from courses offered. Students should consult supervisory faculty about the most appropriate courses.
- Completion of a thesis under the direction of the student's supervisor, assisted by an advisory committee, and defended at a departmental oral examination.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Ecology and Evolutionary Biology's additional admission requirements stated below.
- 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 may be accepted who already hold an MSc degree 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.
 - Exceptional applicants may be accepted for direct entry into the PhD with a BSc degree,

Degree and Diploma Programs by Graduate Unit

an average grade equivalent to a University of Toronto A- or better in courses in ecology and evolutionary biology, and evidence of research potential.

- 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.

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 (2.0 graduate FCEs for students entering without an MSc degree).
- Students must complete 1.5 graduate FCEs chosen from courses offered. Students transferring into the PhD program from the MSc may apply 0.5 graduate FCE towards the PhD course requirement.
- All students are examined 14 to 20 months into the program (between 14 and 26 months for students who entered directly from an undergraduate degree or transferred from the MSc) on both their mastery of concepts in ecology and evolutionary biology and a submitted research proposal. Students failing the breadth portion of the exam will be directed to remedial activities by the Examining Committee. Students failing the research proposal portion are required to submit a revised proposal in a reconvened appraisal within four months. Failure of the reconvened exam may lead to a recommendation of termination of the student's registration in the PhD program.
- 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.

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 1210H	Advanced Statistics
EEB 1230H	Multivariate Statistics

EEB 1235H	Modular Topics in Quantitative Analysis
EEB 1250H	Spatial Statistics
EEB 1310H	Philosophy and Methods
EEB 1315H	Professional Skills Development in EEB
EEB 1320H	Ecology
EEB 1350H	Evolution
EEB 1357H	Field Ecology and Evolution of Ontario Ecosystems
EEB 1360H	Special Topics in Behaviour
EEB 1420H	Special Topics in Ecology
EEB 1423H	Special Topics: Ecology I
EEB 1424H	Special Topics: Ecology II
EEB 1440H	Special Topics in Evolution
EEB 1445H	Special Topics: Evolution I
EEB 1446H	Special Topics: Evolution II
EEB 1450H	Special Topics in Ecology and Evolution A
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 1328H	Physiological Ecology
EEB 1330H	Systematic Botany
EEB 1340H	Comparative Plant Morphology
EEB 1443H	Phylogenetic Principles
EEB 1459H	Population Genetics
EEB 1460H	Molecular Evolution

Graduate Faculty

Full Members

Agrawal, Aneil - BSc, PhD, CRC
Andrade, Maydianne - BSc, MS, PhD
Barrett, Spencer - BSc, PhD, CRC
Boonstra, Rudy - BSc, PhD
Buck, Leslie - BSc, PhD
Cadotte, Marc W. - BS, MS, PhD
Campbell, Malcolm - DPhil
Caron, Jean-Bernard - MSc, PhD
Caspersen, John - BA, PhD
Chang, Belinda - AB, PhD, CRC
Collins, Nicholas - BA, PhD

Degree and Diploma Programs by Graduate Unit

Currie, Douglas - BSc, PhD
Cutter, Asher - PhD, CRC
Cyr, Helene - BSc, MSc, PhD
Darling, DChristopher - MSc, PhD
Dickinson, Timothy - BSc, MSc, PhD
Eckenwalder, James - BA, PhD
Engstrom, Mark - BSc, MSc, PhD
Ensminger, Ingo - PhD
Evans, David - BSc, PhD
Fitzpatrick, Mark - BS, MS, PhD
Fortin, Marie-Josée - MSc, PhD
Frederickson, Megan - AB, PhD
Fulthorpe, Roberta - BSc, MSc, PhD
Gilbert, Benjamin - BSc, MSc, PhD
Goyal, Sidhartha - MS, PhD
Gross, Mart - BSc, PhD
Guttman, David - BS, PhD, CRC
Gwynne, Darryl - BSc, PhD
Holmes, Melissa - BA, MA, PhD
Irwin, David - BSc, PhD
Jackson, Donald - BSc, MSc, PhD (**Graduate Chair**)
Johnson, Marc - BSc, PhD
Kohn, Linda - BS, PhD
Kotanen, Peter - BSc, MSc, PhD
Krkosek, Martin - BSc, PhD
Kronzucker, Herbert - PhD
Levine, Joel - BA, PhD
Lopez-Fernandez, Hernan - BS, PhD
Lovejoy, Nathan Richard - BSc, MS, PhD
Mandrak, Nicholas - BSc, MSc, PhD
Mason, Andrew - MS, PhD
McLennan, Deborah - BSc, PhD
Mideo, Nicole - BSc, PhD
Molnar, Peter Kalman - BS, MMath, PhD
Moncalvo, Jean-Marc - PhD
Moses, Alan - BA, PhD
Murphy, Robert - BSc, MA, PhD
Ratcliffe, John - BSc, MSc, PhD
Reisz, Robert - BSc, MSc, PhD, FRSC
Rodd, F. Helen - MSc, PhD (**Associate Chair, Graduate Studies**)
Rowe, Locke - BSc, MSc, PhD, CRC
Sage, Rowan - PhD
Sage, Tammy - BA, MS, PhD
Short, Steven - BSc, PhD
Smith, Sandy - BAgSc, MSc, PhD
Sokolowski, Marla - BSc, PhD, CRC
Stefanovic, Sasa - MSc, PhD
Stinchcombe, John - BA, PhD
Thompson, Paul - BA, MA, PhD
Thomson, James - MS, PhD
Wagner, Helene - MSc, MSc, PhD
Weis, Arthur - BPhil, PhD
Wright, Stephen - BSc, MS, PhD

Members Emeriti

Abrams, Peter - BSc, PhD
Baker, Robert - BSc, MSc, PhD
Brooks, Daniel - BS, MS, PhD

Dengler, Nancy - BA, MS, PhD
Gibo, David - BA, PhD
Harvey, Harold - MSc, PhD
Morris, Glenn - BSA, MS, PhD

Associate Members

Dunlop, Erin - BSc, PhD
Lester, Nigel Paul - BA, MSc, PhD
Minns, Charles - BSc, PhD
Ridgway, Mark - MSc, PhD
Shuter, Brian - BSc, MSc, PhD
Somers, Keith - MSc, PhD
Walsh, Denis - BA, BSc, MPH, PhD, PhD

Economics

Faculty Affiliation

Arts and Science

Degree Programs

Economics

MA

PhD

Combined Degree Programs

Law, Juris Doctor / Economics, MA

Law, Juris Doctor / Economics, PhD

Joint Degree Program

The following program is offered jointly by the Department of Economics and the Rotman School of Management: **Financial Economics, MFE**.

Overview

The Department of Economics offers degree programs leading to the **Master of Arts**; the **Combined Degree Program in Law, Juris Doctor / Economics**, **Master of Arts**; the **Combined Degree Program in Law, Juris Doctor / Economics**, **Doctor of Philosophy**; and the **Doctor of Philosophy**. Graduate program details appear on the department's website.

Contact and Address

Web: www.economics.utoronto.ca

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MA and PhD Graduate Office
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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Economics' additional admission requirements stated below.

- 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 the website for details.

Program Requirements

- For the **MA general stream**, successful completion of 4.5 full-course equivalents (FCEs) as follows:
 - 0.5 FCE mathematics and statistics course (ECO 1010H);
 - 4.0 FCEs including the core courses in micro (ECO 2060H), macro (ECO 2061H), and econometrics (ECO 2408H).
- For the **MA doctoral stream**, successful completion of 4.5 FCEs as follows:
 - 0.5 FCE mathematics and statistics course (ECO 1011H);
 - 4.0 FCEs that meet the following two requirements:
 - three courses (1.5 FCEs) from micro (ECO 2020H or ECO 2060H), macro (ECO 2021H or ECO 2061H), and econometrics (ECO 2400H or ECO 2408H);
 - at least 1.5 FCEs from the following list of courses with a PhD focus: ECO 2020H, ECO 2021H, ECO 2030H, ECO 2031H, ECO 2050H, ECO 2051H, ECO 2300H, ECO 2301H, ECO 2304H, ECO 2400H, ECO 2401H, ECO 2404H, ECO 2410H, ECO 2600H, ECO 2601H, ECO 2800H, ECO 2801H, ECO 2803H, and ECO 2901H.

ECO 2020H, ECO 2021H, and ECO 2400H may be counted towards requirements 1 and 2. Therefore, the remaining number of electives to be taken will vary from 1.0 FCE to 2.5 FCEs.

Program Length

2 sessions full-time (typical registration sequence: F/W);
6 sessions part-time

Time Limit

3 years full-time; 6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

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Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Economics' additional admission requirements stated below.

- 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 the website 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 4060Y⁰).
- Suitable PhD-level courses taken by a student in the MA program in the Department of Economics may fulfil some of the course requirements of the PhD program.
- An original paper must be written in the second year and presented in the relevant workshop in the **fall of Year 3**.
- By the **spring of Year 3**, students must submit a proposal to a formal dissertation committee.
- A thesis based on original research.

General Examinations

Successful Completion of Theory Comprehensive Examinations

- Students are required to take two comprehensive examinations in microeconomic and macroeconomic theory after the end of the Winter session (usually June) in Year 1 of their program. Performance on these exams is evaluated on a distinction/pass/fail basis. If a theory comprehensive examination is failed on the first attempt, it must be re-taken later in the Summer (usually in August) of the same year.

Degree and Diploma Programs by Graduate Unit

Successful Completion of Field Comprehensive Examination

- All students are required to take a comprehensive examination in their major field after the end of the Winter session in their second year (usually May). If the exam is failed, it must be re-taken later in the Summer (usually in August) of the same year. The major fields offered regularly are:
 - Microeconomic Theory
 - Macroeconomic Theory
 - Econometrics
 - Economic Development
 - Financial Economics
 - Industrial Organization
 - International Economics
 - Labour Economics
 - Public Economics

Program Length

4 years full-time

Time Limit

6 years full-time

Combined Degree Program: Law, Juris Doctor / Economics, Master of Arts

For full details, see the Law, Juris Doctor / Economics, Master of Arts entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Law, Juris Doctor / Economics, Doctor of Philosophy

For full details, see the Law, Juris Doctor / Economics, Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Course List

Not all courses are offered every year. Please refer to the department's website for a current list.

Preliminary Courses

ECO 1010H	Mathematics and Statistics for MA General Students (Credit/No Credit)
ECO 1011H	Mathematics and Statistics for MA Doctoral Stream and PhD Students (Credit/No Credit)

Core Courses in Economic Theory

ECO 2020H	Microeconomic Theory I
ECO 2021H	Macroeconomic Theory I
ECO 2030H	Microeconomic Theory II (prerequisite: ECO 2020H)

Degree and Diploma Programs by Graduate Unit

ECO 2031H	Macroeconomic Theory II (prerequisite: ECO 2021H)
ECO 2050H	Applied Microeconomics (co-requisites: ECO 2020H and ECO 2030H)
ECO 2051H	Applied Macroeconomics (co-requisites: ECO 2021H and ECO 2031H)
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 (prerequisites: ECO 2020H and ECO 2030H)
ECO 2101H	Advanced Microeconomic Theory II
ECO 2102H	Topics in Microeconomic Theory
ECO 2106H	Market Design (exclusion: ECO 426H)

History of Economic Thought

ECO 2004H	The History of Economic Thought
ECO 2006H	Topics in the History of Economic Thought

Economic History

ECO 2214Y	The International Economy Since 1870
ECO 2234H	Topics in North American Economic History

International Economics

ECO 2300H	International Trade Theory
ECO 2301H	International Monetary Theory
ECO 2303H	International Macroeconomics
ECO 2304H	International Trade II (prerequisite: ECO 2300H)
ECO 2305H	Topics in International Finance
ECO 2310H	Topics in International Trade

Econometrics

ECO 2400H	Econometrics I
ECO 2401H	Econometrics II (prerequisite: ECO 2400H or ECO 2408H)
ECO 2402H	Advanced Econometrics

ECO 2403H	Topics in Econometrics
ECO 2404H	Empirical Applications of Economic Theory (exclusion: ECO 418H)
ECO 2408H	Econometrics (for MA students only)
ECO 2410H	Applied Econometrics (co-requisites: ECO 2400H and ECO 2401H)
ECO 2411H	Financial Econometrics (exclusion: ECO 462H)

Macroeconomics; Monetary and Financial Economics

ECO 2103H	Topics in Macroeconomic Theory (prerequisites: ECO 2021H and ECO 2031H)
ECO 2104H	Quantitative Macroeconomics
ECO 2500H	Monetary Theory I
ECO 2501H	Monetary Theory II
ECO 2502H	Advanced Monetary Theory
ECO 2503H	Financial Economics I (exclusion: ECO 419H)
ECO 2504H	Financial Economics II
ECO 2505H	Macroeconometric Models for Policy Analysis and Forecasting (exclusion: ECO 416H)
ECO 2506H	Economics of Risk Management (prerequisite: ECO 358H [70%]/ECO 460H [70%]; exclusion: ACT 349H, ECO 461H, MGT 331Y, MGT 337Y, MGT 438H, RSM 332H, RSM 333H, RSM 435H)
ECO 2507H	International Financial Markets
ECO 2508H	Applied Financial Risk Management
ECO 2510H	Financial Market Microstructure (exclusion: ECO 463H)
ECO 2511H	Empirical Financial Economics (exclusion: ECO 464H)
ECO 2512H	Topics in Business Cycles (exclusion: ECO 438H)

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

Degree and Diploma Programs by Graduate Unit

ECO 2620H	Topics in Health Economics
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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 (exclusion: ECO 435H)

Labour Economics

ECO 2800H	Labour Economics I
ECO 2801H	Labour Economics II
ECO 2802H	Economics Inside Organizations
ECO 2803H	Methods for Empirical Microeconomics
ECO 2808H	Topics in Economics of the Family (exclusion: ECO 432H)

Industrial Organization

ECO 2900H	Industrial Organization I
ECO 2901H	Industrial Organization II

Law and Economics

ECO 3501H	Economic Analysis of Law
ECO 3502H	Energy and Regulation (exclusion: ECO 414H)
ECO 3504H	International Trade Regulation (exclusions: ECO 459H and LAW 285H/LAW 2038H)

Other Courses

ECO 2908H	Environmental and Resource Economics
ECO 3202H	Urban and Regional Economics
ECO 3300H	Political Economy (exclusion: ECO 434H)
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 ⁰	Graduate Research Seminar (Credit/ No Credit)

[#] The department is normally prepared to supervise reading courses in a variety of fields. Reading courses are available only to students who have the requisite preparation and only at the discretion of faculty members.

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

Graduate Faculty

Full Members

Aguirregabiria, Victor - BA, MSc, PhD
 Aivazian, Varouj - BS, MA, PhD
 Alexopoulos, Michelle - BSc, MA, PhD
 Anderson, Gordon - BA, MSc, PhD
 Armstrong, Lawrin - BA, MA, MA, MDiv, PhD
 Baker, Michael - BComm, MA, PhD
 Benjamin, Dwayne - BSc, MA, PhD (**Chair and Graduate Chair**)
 Bobonis, Gustavo - BA, PhD
 Brandt, Loren - BS, MS, PhD
 Burda, Martin - BSc, MA, PhD
 Damiano, Ettore Vincenzo - AB, MA, MPH, PhD
 Duarte, Margarida - MEc, PhD
 Durantón, Gilles - BSc, MSc, MA, PhD
 Faig, Miquel - MEc, PhD (**Associate Chair, Graduate Studies**)
 Gouriéroux, Christian - PhD
 Gunderson, Morley - BA, MA, PhD
 Hamilton, Gillian - MEc, PhD
 Horstmann, Ignatius - BA, PhD
 Hosios, Arthur - BEng, MEng, MA, PhD
 Kambourov, Gueorgui - BA, MA, DPhil
 Kramer, Lisa - BBA, PhD
 Kuruscu, Burhanettin - BSc, MA, PhD
 McMillan, Robert - AB, DPhil
 Melino, Angelo - BA, PhD
 Morrow, Peter - BA, MA, PhD
 Oreopoulos, Philip - BA, MA, PhD
 Osborne, Martin - BA, PhD
 Park, Andreas - MEc, MPH, PhD
 Pesando, James - BA, MA, PhD
 Peski, Marcin - BA, MA, MA, PhD
 Pitchik, Carolyn - BA, MSc, PhD
 Restuccia, Diego - BA, MA, PhD
 Siow, Aloysius - BA, PhD
 Smart, Michael - BA, BA, PhD
 Stabile, Mark - BA, MA, PhD
 Trebilcock, Michael - LLB, LLM
 Trefler, Daniel - BA, MPH, PhD
 Yatchew, Adonis - BA, MA, PhD
 Zhu, Xiaodong - PhD

Members Emeriti

Berry, R Albert - BA, PhD
 Carr, Jack - BCom, MA, PhD
 Cohen, Jon - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Deweese, Donald - LLB, BScEE, PhD
Eddie, Scott - BS, PhD
Floyd, John - BComm, MA, PhD
Fuss, Melvyn - BSc, MA, PhD
Helleiner, Gerald - BA, PhD
Hollander, Samuel - BSc, PhD
Howson, Susan - BA, MSc, MA, PhD
Hynes, J Allan - BA
Reid, Frank - BA, MSc, PhD
Rotstein, Abraham - BA, PhD
Watson, Andrew - BComm, BA, MA
Wilson, Thomas - BA, AM, PhD

Associate Members

Cziraki, Peter - MPH, MA, MSc, PhD
Indart, Gustavo - BA, MA, PhD
Kroft, Kory - BA, MA, PhD
Luo, Yao - BS, MA, PhD
Maheu, John - BA, MEc, DPhil
Malinova, Ekaterina - BS, MA, PhD
Mondria, Jordi - BA, MA, PhD
Mourifie, Ismael - BMath, MSc, PhD
Ozkan, Serdar - MEc, PhD
Seim, David - BA
Serafinelli, Michel - BA, MA, PhD, PhD
Shi, Shouyong - BSc, MA, PhD
Shi, Xianwen - PhD
Souza Rodrigues, Eduardo Augusto - PhD
Steinberg, Joseph - BA, PhD
Stewart, Colin - BSc, MPH, MA, MSc, PhD
Turner, Matthew - BA, AM, PhD
Yang, Xian - MBA, MS, PhD

Electrical and Computer Engineering

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Electrical and Computer Engineering

MASc

MEng

PhD

Emphasis:
Sustainable Energy

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 three 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:

Degree and Diploma Programs by Graduate Unit

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.

Contact and Address

Web: www.ece.utoronto.ca

Email: ecegradoffice@utoronto.ca

Telephone: (416) 978-5804

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Electrical and Computer Engineering's additional admission requirements stated below.
- 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,

Degree and Diploma Programs by Graduate Unit

and in suggesting and developing new approaches to problems in an area of applied science and engineering. During the first year of registration, students are required to attend the ECE Colloquium and complete JDE 1000H *Ethics in Research*.

- Students in the MASc program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Engineering

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Electrical and Computer Engineering's additional admission requirements stated below.
- 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, extended full-time, or part-time basis.
 - **Full-time option:** students normally complete the requirements in three sessions (one year).
 - **Extended full-time option:** students are expected to complete the requirements in six sessions (two years) and are limited to six half courses per year and three half courses per session.
 - **Part-time option:** students are limited to four half courses per year and two half courses

per session. Students normally complete the requirements in nine sessions (three years).

- Students in the MEng program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S)

9 sessions part-time

Time Limit

3 years full-time and extended 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. Applicants must also satisfy the Department of Electrical and Computer Engineering's additional admission requirements stated below.
- Admission may be granted by one of three routes:
 1. 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
 2. direct entry for exceptionally qualified students with an appropriate bachelor's degree from a recognized university
 3. 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.
- Students in the PhD program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

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

Emphasis: Sustainable Energy

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H,
CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H,
CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H,
ECE 533H, ECE 1055H, ECE 1085H, ECE 1086H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,
MSE 558H, MSE 1022H, MSE 1028H

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 1049H	Special Topics in Energy Systems
ECE 1055H	Dynamics of HVdc/ac Transmission Systems
ECE 1059H	Special Topics in Power Systems
ECE 1065H	Custom Power Controllers
ECE 1066H	Design of High-Frequency Switch-Mode Power Supplies (SMPS)
ECE 1068H	Introduction to EMC
ECE 1084H	Design of Advanced High-Efficiency Switched Mode Power Supplies
ECE 1085H	Power System Optimization
ECE 1086H	Power Management for Photovoltaic Systems
ECE 1094H	Mathematical Methods in Power Systems

Electromagnetics

ECE 524H	Microwave Circuits
ECE 1228H	Electromagnetic Theory
ECE 1229H	Advanced Antenna Theory
ECE 1236H	Microwave and Millimetre-wave Techniques
ECE 1243H	Topics in Electromagnetic Waves
ECE 1252H	Introduction to Computational Electrodynamics
ECE 1253H	Active Microwave Circuits
ECE 1254H	Modeling of Multiphysics Systems
ECE 1255H	Special Topics in Electromagnetics

Electronics

ECE 512H	Analog Filters
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Degree and Diploma Programs by Graduate Unit

ECE 530H	Analog Electronics
ECE 534H	Integrated Circuit Engineering
ECE 1333H	Selected Topics in Semiconductor Physics
ECE 1334H	Selected Topics in Solid State Electronics/VLSI Technology
ECE 1336H	Semiconductor Physics
ECE 1352H	Analog Circuit Design I
ECE 1360H	Selected Topics in Instrumentation
ECE 1364H	Selected Topics in Solid State Circuit Design
ECE 1365H	High Frequency Integrated Circuits
ECE 1371H	Advanced Topics in Analog Circuits
ECE 1373H	Digital Design for Systems-on-Chip
ECE 1379H	Introduction to Compound Semiconductor Devices
ECE 1384H	Digital Circuit Design
ECE 1385H	Selected Topics in VLSI Systems
ECE 1387H	CAD for Digital Circuit Synthesis and Layout
ECE 1388H	VLSI Design Methodology
ECE 1390H	Selected Topics in Circuits and Systems
ECE 1391H	Advanced Microelectronic Devices
ECE 1392H	Integrated Circuits for Digital Communications
ECE 1393H	Semiconductor Devices
ECE 1395H	Power Semiconductor Devices and Applications

Biomedical Engineering

JEB 1365H	Ultrasound: Theory and Applications in Biology and Medicine
JEB 1433H	Medical Imaging
JEB 1444H	Neural Engineering
JEB 1447H	Sensory Communications
BME 1452H	Signal Processing for Bioengineering

Photonics

ECE 525H	Lasers and Detectors
ECE 527H	Passive Photonic Devices
ECE 1448H	Quantum Mechanics for Engineers
ECE 1450H	Ultrafast Photonics
ECE 1460H	Special Topics in Photonics

ECE 1461H	Advanced Laser Processing
ECE 1467H	Integrated Optical Circuit Design
ECE 1473H	Micro and Nano Fabrication Technologies for Compound Semiconductors
ECE 1475H	Bio Photonics
ECE 1476H	High-efficiency Photovoltaics
ECE 1477H	Optical Interconnects

Communications

ECE 537H	Random Processes
ECE 1501H	Error Control Codes
ECE 1502H	Information Theory
ECE 1503H	Power Semiconductor Devices and Applications
ECE 1505H	Convex Optimization
ECE 1508H	Special Topics in Communications
ECE 1510H	Advanced Inference Algorithms
ECE 1511H	Signal Processing
ECE 1512H	Digital Image Processing and Applications
ECE 1517H	Biometric Systems
ECE 1518H	Seminar in Identity, Privacy, and Security
ECE 1520H	Data Communications I
ECE 1521H	Statistical Communication Theory
ECE 1522H	Data Communications II
ECE 1528H	Special Topics in Data Communications
ECE 1529H	Adaptive Systems for Signal Processing and Communications
ECE 1531H	Quantum Information Theory
ECE 1541H	Communication Networks I
ECE 1542H	Communication Networks II
ECE 1543H	Mobile Communications Systems
ECE 1545H	Bridges and Routers
ECE 1548H	Advanced Network Architectures
ECE 1549H	Stochastic Networks
ECE 1550H	Physics of Information

Systems Control

ECE 557H	Systems Control
ECE 1635H	Special Topics in Control I

ECE 1636H	Control of Discrete-Event Systems I
ECE 1637H	Control of Discrete-Event Systems II
ECE 1639H	Analysis and Control of Stochastic Systems I
ECE 1643H	Special Topics in Control II
ECE 1647H	Introduction to Nonlinear Control Systems
ECE 1648H	Nonlinear Control Systems
ECE 1653H	Hybrid Systems and Control Applications
ECE 1656H	Nonlinear Modeling and Analysis of Biological Systems
ECE 1657H	Game Theory and Evolutionary Games

Computer Engineering

ECE 516H	Personal Cybernetics and Intelligent Imaging Systems
ECE 532H	Digital Hardware
ECE 540H	Optimizing Compilers
ECE 1718H	Special Topics in Computer Hardware Design
ECE 1724H	Special Topics in Software Engineering
ECE 1749H	Interconnection Networks for Parallel Computer Architectures
ECE 1754H	Compilation Techniques for Parallel Processors
ECE 1755H	Parallel Computer Architecture and Programming
ECE 1756H	Reconfigurable Computing and FPGA Architecture
ECE 1759H	Advances in Operating Systems
ECE 1762H	Algorithms and Data Structures
ECE 1767H	Design for Test and Testability
ECE 1769H	Behavioural Synthesis of Digital Integrated Circuits
ECE 1770H	Trends in Middleware Systems—Selected Topics and Concepts
ECE 1771H	Quality of Service
ECE 1773H	Advanced Computer Architecture
ECE 1774H	Sensory Cybernetics
ECE 1776H	Computer Security, Cryptography, and Privacy
ECE 1777H	Computer Methods for Circuit Simulation

Degree and Diploma Programs by Graduate Unit

ECE 1778H	Creative Applications for Mobile Devices
ECE 1780H	Advanced Mobile User Interfaces
ECE 1781H	Dependable Software Systems (prerequisite: ECE 344H Operating Systems or similar)
ECE 1782H	Programming Massively Parallel Multiprocessors and Heterogeneous Systems

Master of Engineering

ECE 1092H	Smart Grid Case Studies
ECE 1093H	Electrical Insulation Design and Coordination
ECE 1394H	Technical Management of Modern IC Design
ECE 1524H	Service Provider Networks
ECE 1551H	Mobile Broadband Radio Access Network (prerequisite: ECE 316; exclusion: ECE 1508H)
ECE 1779H	Introduction to Cloud Computing
ECE 2500Y	Master of Engineering Project

Graduate Faculty

Full Members

Aarabi, Parham - BAsC, MASc, PhD
 Abdelrahman, Tarek - BSc, MSc, PhD
 Adve, Raviraj - BTech, PhD
 Aitchison, J. Stewart - BSc, PhD
 Amza, Cristiana - BS, MS, PhD
 Anderson, Jason Helge - BSc, MASc, PhD
 Bardakjian, Berj - BSc, BEd, MASc, PhD
 Betz, Vaughn - BSc, MS, PhD
 Broucke, Mireille - BScEE, MS, PhD
 Brown, Stephen - BSE, MASc, PhD
 Chan Carusone, Anthony - BAsC, PhD
 Chau, Tom - PhD
 Chechik, Marsha - BS, SM, PhD, Bell University Labs
 Chair in Software Engineering
 Cheng, Hai-Ling - BSc, MS, PhD
 Chow, Paul - BAsC, MASc, PhD
 Dawson, Francis - BSc, BAsC, MASc, PhD
 Demke Brown, Angela - BS, SM, PhD
 Draper, Stark - BA, PhD
 Eizenman, Moshe - BAsC, MASc, PhD
 Eleftheriades, George - DiplIng, MSEE, PhD
 Enright Jerger, Natalie - BSc, MSc, PhD
 Frey, Brendan - BSc, MSc, PhD
 Genov, Roman - BS, MS, PhD
 Goel, Ashvin - BTech, MS, PhD
 Gulak, Glenn - BAsC, MSc, PhD

Degree and Diploma Programs by Graduate Unit

Hatzinakos, Dimitrios - DiplIng, MSc, PhD
Helmy, Amr - BSc, MSc, PhD
Herman, Peter - BEng, MSc, PhD
Hum, Sean - BSc, MSc, PhD, PEng
Iravani, Mohammad - BSc, MSc, PhD
Jacobsen, Hans-Arno - MCS, PhD
Johns, David Andrew - BASc, MAsC, PhD
Kherani, Nazir - BASc, MAsC, PhD
Kschischang, Frank - BASc, MAsC, PhD (**Associate Chair, Graduate Studies**)
Kundur, Deepa - BASc, MAsC, PhD
Kwong, Raymond - SB, SM, PhD
Lehn, Peter - BScEE, MSc, PhD
Leon-Garcia, Alberto - BS, MS, PhD
Levi, Ofer - BSc, MSc, PhD
Li, Baochun - BEng, MSc, DPhil
Liang, Ben - BS, MS, PhD
Lie, David - BASc, MS, PhD
Liebeherr, Jorg - DiplIng, PhD
Liscidini, Antonio - MSEE, DE
Lo, Hoi-Kwong - BA, MA, MS, PhD
Maggiore, Manfredi - MS, PhD
Mandelis, Andreas - BSc, MA, MSc, PhD
Mann, Steve - BSc, BASc, MSc, PhD
Mojahedi, Mohammad - BSE, MS, PhD
Moshovos, Andreas - BSc, MS, PhD
Nachman, Adrian - BSc, MA, PhD
Najm, Farid - BE, MSEE, PhD (**Chair and Graduate Chair**)
Ng, Wai Tung - BSc, MAsC, PhD
Pavel, Lacra - BEng, PhD
Plataniotis, Konstantinos - DiplIng, MS, PhD
Poon, Joyce - BASc, MS, PhD
Popovic, Milos - DiplIng, PhD
Prodic, Aleksandar - BS, MSc, PhD
Qian, Li - BASc, MAsC, PhD
Rose, Jonathan - BSc, MAsC, PhD
Ruda, Harry - BSc, PhD
Sargent, Edward - BEng, PhD
Sarris, Konstantinos - BE, MS, PhD
Scardovi, Luca - MSc, PhD
Sheikholeslami, Ali - BSc, MAsC, PhD
Sousa, Elvino - BASc, MAsC, PhD
Stumm, Michael - MS, PhD
Sun, Yu - BS, MS, MS, PhD
Taylor, Joshua - BS, SM, PhD
Trescases, Olivier - BASc, MAsC, PhD
Triverio, Piero - BScEE, MS, PhD
Truong, Kien (Kevin) - BASc, PhD
Valaee, Shahrokh - BScEE, MSEE, PhD
Veneris, Andreas - BSc, MSc, PhD
Voinigescu, Sorin - MS, PhD
Wong, Willy - BSc, MSc, PhD
Yoo, Paul - BASc, MSc, PhD
Yu, Wei - BASc, MSEE, PhD
Yuan, Ding - PhD
Zhu, Jianwen - BS, MS, PhD

Members Emeriti

Balmain, Keith - BSc, MS, PhD
Blake, Ian - BASc, MAsC, PhD
Bonert, Richard - DiplIng, DE
Cobbold, Richard - PhD
Davison, Edward - BASc, MA, PhD, ARCT
Dmitrevsky, Sergi - BASc, MAsC, AM, PhD
Francis, Bruce - BASc, MEng, PhD
Iizuka, Keigo - BS, ME, MS, PhD
Joy, Michael - BSc, MAsC, PhD
Kunov, Hans - MSc, PhD
Pasupathy, Subbarayan - BE, MPH, PhD
Salama, Andre - BASc, MAsC, PhD
Semlyen, Adam - PhD, PhD
Smith, Kenneth - BASc, MAsC, PhD
Smith, Peter - BSc, MSc, PhD
Vranesic, Zvonko - BASc, MAsC, PhD
Wonham, Walter - BEng, PhD
Zaky, Safwat - BSc, BSc, MSc, PhD
Zukotynski, Stefan - MAsC, PhD

Associate Members

Anders, George - MSc, MMath, MEng, PhD
Caldwell, Trevor - PhD
Chisholm, William - PhD
Dong, Min - PhD
Eckford, Andrew - BE, MAsC, PhD
Huzayyin, Ahmed - PhD
Kundur, Prabha - PhD
Maljevic, Ivo - PhD
Martin, Kenneth - BASc, MAsC, PhD
Morris, Quaid - BS, PhD
Pagiamtzis, Kostas - PhD
Savor, Tony - PhD
Schreier, Richard - PhD
Seethapathy, Ravi - MBA
Shahbazpanahi, Shahram - PhD
Song, Liang - PhD
Tizghadam, Ali - PhD
Yazdani, Amirnaser - PhD
Zariffa, Jose - DrEng

English

Faculty Affiliation

Arts and Science

Degree Programs

English

MA	<i>Fields:</i> American Literature Aspects of Theory Canadian Literature Creative Writing Medieval Literature Renaissance Literature Restoration and Eighteenth-Century Literature Romantic and Victorian Literature Twentieth and Twenty-First Century British and Irish Literature World Literatures in English
PhD	<i>Fields:</i> American Literature Aspects of Theory Canadian Literature Medieval Literature Renaissance Literature Restoration and Eighteenth-Century Literature Romantic and Victorian Literature Twentieth and Twenty-First Century British and Irish Literature World Literatures in English

Combined Degree Programs

Law, JD / English, MA

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. **Jewish Studies**
 - English, MA, PhD
5. **Sexual Diversity Studies**
 - English, MA, PhD
6. **South Asian Studies**
 - English, MA, PhD

Degree and Diploma Programs by Graduate Unit

7. Women and Gender Studies

- English, MA, PhD

8. 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 program in the Department of English 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 **Master of Arts** and **Doctor of Philosophy** 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

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Telephone: (416) 978-2526

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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 and Twenty-First Century British and Irish Literature
- World Literatures in English

Degree and Diploma Programs by Graduate Unit

Minimum Admission Requirements

See additional requirements for Creative Writing field below.

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of English's additional admission requirements stated below.
- 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.
- A writing sample consisting of 12 to 15 pages. The writing sample should be an accomplished piece of the applicant's own academic writing, such as an advanced undergraduate seminar paper. Details appear on the department's website.
- 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 Test of Written English (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 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.
- Students must attain a B standing in each graduate course.
- The MA program may be taken on a part-time basis.

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 to 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.
- The MA Creative Writing program cannot be taken on a part-time basis.

Program Length

3 sessions full-time all fields except Creative Writing (typical registration sequence: F/W/S);

5 sessions full-time Creative Writing field (typical registration sequence: F/W/S/F/W);

9 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Combined Degree Program: Law, Juris Doctor / English, Master of Arts

For full details, please see the Law, Juris Doctor / English, Master of Arts entry in the Combined Degree Programs section of this calendar.

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
- Twentieth and Twenty-First Century British and Irish Literature
- World Literatures in English

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of English's additional admission requirements stated below.
- Admission by one of two routes:
 1. normally, 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, or
- 2. in exceptional cases, 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.
- Applicants must satisfy the department that they are capable of independent research in English at an advanced level.
- Recommendations from two referees.
- A writing sample of not more than 5,000 words (approximately 15 to 20 pages).
- A statement of purpose.
- A curriculum vitae (CV).
- 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 Test of Written English (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 7.5 FCEs: 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*, 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 9500H *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.

Degree and Diploma Programs by Graduate Unit

- **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 9500H *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 fulfillment 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.

Degree and Diploma Programs by Graduate Unit

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 August of their second year. Students entering the program directly from a bachelor's degree take the examination in August 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 10 weeks from submission of the thesis for the department to complete the arrangements for the oral examination.

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, 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.

ENG 1001H	Old English I
ENG 1002H	Old English II

ENG 1008H	Medieval Entertainers
ENG 1009H	Writing the Nation: Pre-modern Historiographies
ENG 1013H	Women in Medieval Literature: Image and Author
ENG 1081H	The Anglo-Saxon Riddle Tradition
ENG 1093H	Medieval Vernacular Book
ENG 1094H	Discourses of Vernacular Spirituality
ENG 1324H	The Figure of the Saint
ENG 1551H	The Canterbury Tales
ENG 1552H	Chaucer's Troilus and Criseyde and Other Works
ENG 1730H	Medieval Drama: The Biblical Cycles and Fragments
ENG 2001H	Animal/Human Interfaces in Early Modern Culture
ENG 2002H	Early Modern Ecologies
ENG 2006H	Cultural Identity in the Early Modern Theatre
ENG 2007H	Gender and Song in the Early Modern Context
ENG 2008H	The Early Modern in the History of Science and Literature
ENG 2019H	Early Modern Psyches: Shakespeare and Psychoanalysis
JEH 2020H	Early Modern Diaspora: A Cross-disciplinary Seminar on the Literature and History of Exile
ENG 2021H	The Global Renaissance
ENG 2054H	John Donne: Theory and Context
ENG 2222H	The Renaissance of Art
ENG 2225H	Renaissance Lyric, in Theory
ENG 2235H	"1594"
ENG 2280H	Mimesis and Representation: Studies in Renaissance Texts
ENG 2423H	Spenser: The Faerie Queene
ENG 2429H	Gender, Courtesy, and Civility in Early Modern England
ENG 2467H	Early Modern Nationalism and Milton's England
ENG 2485H	London Drama 1190–1590
ENG 2510H	Shakespeare and the Renaissance Schoolroom

Degree and Diploma Programs by Graduate Unit

ENG 2533H	Historicizing Shakespeare's Language: Discourse Analysis and Early Modern Studies
ENG 2535H	Shakespeare and his Contemporaries
ENG 2537H	Unfamiliar Letters: Language and Culture of Early Modern Correspondence
ENG 2586H	Popular Drama in Early Modern England
ENG 2583H	Popular Legend in the Plays of Shakespeare and His Contemporaries
ENG 2610H	Disguise on the Early Modern Stage
ENG 2653H	Renaissance Tragedy
ENG 2699H	Shakespeare's Sonnets
ENG 2794H	Staging and the Meaning of Early Modern Drama
ENG 2960H	What's Metaphysical About Metaphysical Poetry?
ENG 3043H	Drama 1660–1710
ENG 3044H	English Comedy, 1660–1737
ENG 3255H	Fielding's Tom Jones
ENG 3301H	The Social Life of Feeling in Eighteenth-Century Literature
ENG 3303H	Henry Fielding
ENG 3332H	Eighteenth-Century Tragedy and its Discontents
ENG 3403H	Literature of the Seven Years War
ENG 3702H	A History of Violence: Eighteenth-Century Literature and the Politics of Pain
ENG 3707H	Literature and Censorship, 1660–1830
ENG 4199H	Vulgar Tongues: Antiquarianism, Slang, and Slumming in the Romantic Era
ENG 4212H	Romanticism and Catastrophe
ENG 4216H	Romanticism and the Literature of Mobility
ENG 4222H	Romanticism and Mobility
ENG 4262H	Realism and the Sociological Impulse
ENG 4266H	Redemptive Realism: The Victorian Novel
ENG 4503H	Darwin and Darwinism
ENG 4664H	Romantic Pastoral Revisited
ENG 4665H	Romantic Cities

Degree and Diploma Programs by Graduate Unit

ENG 4670H	Romanticism: Local and Global
ENG 4672H	The Literary Scene of the 1820s
ENG 4741H	Victorian Lyric
ENG 4765H	Emotions, Affect Theory, and the Novel
ENG 4801H	Aging and Older Age in the Nineteenth-Century British Novel
ENG 4875H	George Eliot
ENG 4879H	Christianity in Victorian Literature
ENG 4881H	Victorian Realism and the Victorian Realist Novel: Studies in Narrative
ENG 4883H	Rereading Victorian Realism
ENG 4884H	Nineteenth-Century Fiction and the Discovery of Everyday Life
ENG 4885H	Sociality and its Discontents: the Social and Anti-social in the Victorian Novel
ENG 4906H	Novel, Reconstruction, and the Civil War Amendments
ENG 4924H	The Victorian Novel in Transition
ENG 4947H	Studies in Victorian Poetry (Ballads and Romances)
ENG 4960H	Print and Politics in English Canada 1837–1937
ENG 4987H	Visions and Revisions: The Sublime in Contemporary American Poetry
ENG 5024H	Anglo-Jewish Fiction and Poetry of the Twentieth Century
ENG 5040H	Pathological Forgetting in Canadian Literature
ENG 5047H	Class and American Literature
ENG 5050H	Literature, Law, and Liberal Culture in the United States 1776–1865
ENG 5051H	Energy and Economy in the American Renaissance
ENG 5058H	Magical Realism(s): Postcolonialism and Postmodernism
ENG 5076H	Theorizing the Caribbean Diaspora
ENG 5150H	British Modernism, 2004–Present
ENG 5200H	Woolf/Beckett/Coetzee
ENG 5206H	Sir Beelzebub's Syllabus: The Poetry of Edith Sitwell
ENG 5275H	Elizabeth Bishop and Marianne Moore Studies in Poetics
ENG 5276H	The Vietnam War Era and Canadian Literature

ENG 5279H	Class and Community in Postwar American Literature
ENG 5280H	American Realism and Reform
ENG 5282H	American Modernity
ENG 5318H	Catastrophe, Community, Commodity, and Control in the 1930s: Studies in Historical Analysis
ENG 5519H	Narrative, Narratology, and Modernist Fiction: Studies in Narrative
ENG 5524H	Modernism, Modernity and the Crisis in Temporality
ENG 5540H	Modernism and its Media: Fiction and Theatre in an Age of Film and Radio
ENG 5542H	Modernist Creation
ENG 5572H	The City as Archive: Social Memory, Missing Histories, Writing
ENG 5580H	American Pastoral: Agriculture and Environment in Literary Imagination
ENG 5581H	The Idea of the Modern
ENG 5586H	Privacy in American Literature
ENG 5588H	Free Love?: Conjugal Politics and American Literature
ENG 5608H	Modernist Narrative, and Embodied Cognition
ENG 5610H	Space and the Education of Desire: Postcolonialism and Diaspora
ENG 5615H	Ashbery, Bishop, O'Hara
ENG 5618H	Fiction and Virtue in the Late Nineteenth-Century U.S.
ENG 5643H	Jane Austen and Virginia Woolf, In and Out of Their Times
ENG 5731H	Transitional Justice and Indigenous Writing in Canada
ENG 5744H	1967: A Year in Letters
ENG 5746H	Urban Canadian Literature and Aesthetics of Spatial Justice
ENG 5751H	Novelists and Terrorists
ENG 5784H	Modernizing Poetry
ENG 5787H	The Poetics of Haunting in Canadian Fiction
ENG 5795H	Canadian Literature at the Border
ENG 5800H	Rooted Cosmopolitanism: the Postcolonial Present
ENG 5801H	Kinship in Indigenous Asian Canadian Literatures

ENG 5808H	Zones of Contact and South Asian Writing in English
ENG 5810H	Rethinking Literary History: South Asian Writing in English
ENG 5851H	Faulkner and the American South
ENG 5854H	The Global South
ENG 5905H	Introduction to African-Canadian Literature
ENG 5963H	James Joyce: Modernism, Modernity, Mythology
ENG 5966H	English Literature of the Second World War
ENG 5968H	Actuality, Documentary, Reality
ENG 5977H	Wallace Stevens in Context
ENG 5991H	Postcolonial Tragedies: Theory, Literature, Criticism
ENG 6006H	The Age of Anxiety: Theory, Affect, Politics
ENG 6028H	Religion, Secularism, and the Novel
ENG 6029H	Faithful Reading: Interpretation, Christianity, and Poetry
ENG 6032H	The Victorian Novel, Literally
ENG 6043H	Introduction to Contemporary Literary Theory
ENG 6044H	The Literature of Protection
ENG 6054H	Construals of the Self: Autobiography in Africa and the Diaspora
ENG 6056H	Ideologies
ENG 6060H	The Giants of Contemporary Theory: Reading the Later Works
ENG 6062H	The Human Condition: Arendt, Adorno, Derrida, Kristeva
ENG 6065H	Repetition in Modern Thought and Culture
ENG 6066H	Style: Authorial Signature in the Age of Cyber Technology
ENG 6068H	Embodiment in a Virtual Age
ENG 6070H	Making Faces: Identity, Performance, and the Face on Film
ENG 6152H	Drama After Performance
ENG 6154H	Race and Cinema
ENG 6160H	The Politics of Poetic Form: Studies in Poetics
ENG 6161H	The Poetics of Resistance

Degree and Diploma Programs by Graduate Unit

ENG 6163H	The Fate of Culture in an Age of Globalization
ENG 6192H	Literature as History/History as Literature
ENG 6193H	Communities of Readers
ENG 6200H	The World is Too Much With Us: Witnessing and Creativity in Contemporary Long-Form Reporting
ENG 6223H	The Text of Donne: The Variorum Donne
ENG 6271H	Comedies of Capitalism
ENG 6362H	History and Structure of the English Language: Post-1500
ENG 6365H	Diasporic Englishes
ENG 6368H	Inventing Homes and Spaces in Diasporic South Asian Writing
ENG 6496H	Spatializing Marxism: the Postmodern Spatial Turn
ENG 6499H	Space in Postcolonial Literature
ENG 6501H	Life, Death, and American Fiction
ENG 6522H	Transnational Masculinity in Literature and Culture
ENG 6525H	Environmental Criticism and Postcolonial Discourse
ENG 6529H	Critical Animal Studies
ENG 6546H	Literature and the Resistance to Being
ENG 6530H	Death in Theory
ENG 6551H	Asian North American Literature: National and Transnational Feminisms
ENG 6552H	Law and Literature
ENG 6554H	Race and Gender in Indigenous Law and Literature
ENG 6817H	Text, Context, Intertext: the Touch of Evil Project
ENG 6825H	Fair Use, Fair Dealing, and Critical Reading Across Media
ENG 6842H	The Culture and Politics of Emotion Theory
ENG 6843H	Between Marxism and Psychoanalysis: Trauma, Ethics, Politics
ENG 6846H	Writing the Foreign: Empathy and Complicity in Canadian Literature
ENG 6847H	From CanLit to Canlits: The Re-formation of a Discipline

Degree and Diploma Programs by Graduate Unit

ENG 6850H	Palestine/Israel; Israel/Palestine
ENG 6860H	Authoring
ENG 6890H	Reading Auerbach's <i>Mimesis</i>
ENG 6950Y	Workshop in Creative Writing
ENG 6951H	The Pragmatics of Writing Biography
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
JLE 5116H	Naming the World: Realism Travels the Globe

Graduate Faculty

Full Members

Ackerman, Alan - BA, MA, PhD
 Akbari, Suzanne - BA, MA, MPH, PhD
 Astington, John - BA, MA, PhD
 Bewell, Alan - BA, MA, PhD (**Graduate Chair**)
 Bolus-Reichert, Christine - BPhil, AM, PhD
 Clarke, George Elliott - BA, MA, PhD
 Cobb, Michael - BA, MA, AM, PhD
 Dickie, Simon - BA, MA, PhD
 Dolan, Neal - BA, PhD
 Downes, Paul - BA, PhD
 Dubois, Andrew - BA, PhD
 Esch, Deborah - PhD
 Esonwanne, Uzoma - BA, MA, PhD
 Esterhammer, Angela - BA, PhD
 Galbraith, David - MA, PhD
 Gillespie, Alexandra - BA, BSc, PhD
 Goldman, Marlene Beth - BFA, MA, PhD
 Greene, Richard - PhD
 Harvey, Elizabeth - PhD
 Henderson, Greig - BA, MA, PhD
 Hill, Colin - BA, MA, PhD
 Jaffe, Audrey - BA, PhD
 Kamboureli, Smaro - BA, MA, PhD
 Keymer, Thomas - BA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Lamb, Susan - BA, AM, DA
 Larson, Katherine - BMus, AB, MPH, PhD
 Leonard, Garry - BA, MA, PhD
 Levene, Mark - BA, MA, PhD
 Li, Hao - BA, PhD
 Li, Victor - BA, MA, PhD
 Liuzza, Roy - BA, MA, MPH, PhD
 Lopez, Jeremy - BA, MA, DPhil
 Lynch, Deidre - BA, PhD

Magnusson, Lynne - BA, MA, PhD (**Director of Graduate Studies**)

Matus, Jill - BA, MA, PhD
 Maurice, Alice - BA, DPhil
 McGill, Robert - BA, MPH, 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
 Patrick, Julian - BA, MA, PhD
 Percy, Carol - BA, MA, DPhil
 Quayson, Ato - BA, PhD
 Reibetanz, John - BA, MA, PhD
 Robins, William - BA, MPH, PhD
 Rubright, Marjorie - AB, MA, DLitt
 Ruti, Marjut - BA, MA, PhD
 Salih, Sara - BA, DPhil
 Schmitt, Emmett - BA, MA, PhD
 Seidler, Dana - BA, MA, PhD
 Stern, Simon - BA, PhD, JD
 Stevens, Paul - BA, MA, PhD
 Suzack, Cheryl - BA, BE, MA, PhD
 Syme, Holger Schott - BA, AM, 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
 Xie, Ming - BA, 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
 Bruckmann, Patricia - PhD
 Cameron, Elspeth - BA, MA, PhD
 Chamberlin, J Edward - BA, PhD
 Chambers, Douglas - PhD
 Cook, Eleanor - PhD
 Corman, Brian - AB, AM, PhD
 Cuddy-Keane, Melba - BA, MA, PhD
 de Groot, Hans - MA, PhD
 Domville, Eric William - BA, PhD
 Duffy, Dennis - AB, MA, PhD
 Dutka, JoAnna - BA, MA, PhD, ARCT
 Fenwick, Gillian - PhD
 Flahiff, Frederick - BA, PhD
 Halewood, William - AB, MA, PhD
 Harvey, Elisabeth Ruth - BA, MPH, PhD
 Hayne, Barrie - BA, AM, PhD
 Healey, Antonette - BA, MA, PhD
 Hutcheon, Linda - BA, MA, PhD
 Jackson, Heather - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Johnston, Alexandra - PhD
Kirkham, Michael - BA, MPH
Klausner, David - AB, PhD
Lancashire, Anne - BA, AM, PhD
Lancashire, D Ian - BA, MA, PhD
Leggatt, Alexander - BA, MA, PhD
Levenson, Jill - PhD
Marker, Frederick - AB, DFA
McLeod, Randall - AB, MA, PhD
Millgate, Jane - PhD
Millgate, Michael - BA, MA, PhD
Parker, Brian - PhD
Rigg, Arthur George - BA, MA, DPhil
Saddlemeyer, Ann - PhD, DLitt
Sidnell, Michael - BA, MA, PhD
Vicari, E Patricia - BA, MA, PhD
Visser, Colin - BA, BLitt, PhD
Warkentin, Germaine - PhD

Associate Members

Baker, Deirdre - BA, MA, PhD
Blake, Elizabeth Adams - BA, MPH, MA, PhD
Blayney, Peter - BA, PhD
Charise, Andrea - BSc, MA, PhD
Cruz, Denise - BA, MA, PhD
Dooley, Ann - BA, MA, PhD
Gang, Joshua - AB, MA, PhD
Gaston, Kara Susan - BA, MPH, PhD
Hernandez, Alex - AB, AM, MA, PhD
Knight, Mark - BA, PhD
Orchard, Andrew - DPhil, PhD
Robinson, Terry - BA, MA, PhD
Sergi, Matthew - BFA, PhD
Switzky, Lawrence - BA, MA, PhD
Tysdal, Daniel - BA, MA
Wright, Daniel - BA, MA, PhD

European, Russian, and Eurasian Studies

Faculty Affiliation

Arts and Science

Degree Programs

European and Russian Affairs

MA

Combined Degree Program: Law, JD / European and Russian Affairs, MA

Collaborative Programs

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

1. **Ethnic and Pluralism Studies**
 - European and Russian Affairs, MA
2. **Jewish Studies**
 - European and Russian Affairs, MA

Overview

The **Master of Arts** program in European and Russian Affairs (MA ERA) 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 specialization in the European and Russian areas.

The Combined Degree Program in **Law, Juris Doctor / European and Russian Affairs, Master of Arts** provides specialized professional training for those seeking a career in law in the changing environment of the post-communist world and the European Union. There is a need for 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 and Russian studies.

Contact and Address

Web: <http://munkschool.utoronto.ca/ceres/>

Email: ceres.admin@utoronto.ca

Telephone: (416) 946-8938

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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 and Russian Affairs

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Centre for European, Russian, and Eurasian Studies additional admission requirements stated below.
- 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 academic years 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 the major discipline.
 - 1.5 FCEs must be drawn from at least two disciplines other than the major discipline.
 - ERE 2001Y, taken in Year 1 of the program.
 - ERE 2000Y, the interdisciplinary core course, beginning in the second session of Year 1 and continuing into Year 2. As part of ERE 2000Y, each student must write a 30- to 40-page master's essay, based on original research.
 - The remaining 0.5 FCE may be drawn from any discipline relating to the student's course of study.
 - At least 0.5 FCE must be earned either in an approved program-related internship or in an approved academic exchange abroad.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Combined Degree Program: Law, Juris Doctor / European and Russian Affairs, Master of Arts

For full details, please see the Law, Juris Doctor / European and Russian Affairs, Master of Arts entry in the Combined Degree Programs section of this calendar.

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 2001Y	Gateway Proseminar in European, Russian, and Eurasian Studies

Optional

ERE 1111H	The Demography of Post-Socialism
ERE 1151H	Contemporary Topics in European Security
ERE 1161H	Topics in Russian and Eurasian Studies
ERE 1162H	Topics in the Caucasus
ERE 1165H	International Internship
ERE 1186H	The Past as Prologue: East Central and Southeastern Europe in the Interwar Period
ERE 1188H	European Identities: Ethnicity, Citizenship, and Culture
ERE 1191H	Contemporary Southeast Europe
ERE 1192H	Majorities and Minorities in Southeastern Europe
ERE 1193H	European Enlargement in the Post-Communist Era
ERE 1194H	State and Society in Post-Soviet Central Asia
ERE 1195H	Topics in Ukraine and Eastern Europe
ERE 1198H	Europe's Eastward Enlargement
ERE 1199H	Security, Sovereignty, and Great Power in Politics in Central Asia

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
ANT 6021H	Political Anthropology: State, Power, and Sovereignty
JSA 5147H	Language, Nationalism, and Post-Nationalism

Comparative Literature

For a full listing of courses, see the Comparative Literature entry in this calendar.

COL 5037H	Magic Prague: Questions of Literary Cityscapes
COL 5044H	A Journey from Petersburg to Los Angeles
COL 5099H	Discourse and Iconography of Revolution
COL 5101H	Diasporic Cities: Itinerant Narratives of Metropolises by Travellers and Expatriates
JFC 5105H	Collections of Knowledge: Encyclopedism and Travel Literature in Early Modern Europe (1500–1800)
JGC 1850H	Derrida, the German, the Jew

Economics

For a full listing of courses, see the Economics entry in this calendar.

ECO 2004H	The History of Economic Thought
ECO 2006H	Topics in the History of Economic Thought

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 1400H	From Real to Virtual Shtetl: Jewish Culture in Russia, 1917–2010
GER 1470H	Goethe in Context
GER 1480H	Goethe's Faust
GER 1580H	Vienna at the Turn of the Century
GER 1661H	Modernism in Context

Degree and Diploma Programs by Graduate Unit

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 1233H	Colonial Urbanism in the Mediterranean World, 1800–1950
HIS 1237H	France: 1870–1968
HIS 1245H	Gender, Men and Women in Europe 1500–1900
HIS 1247H	Ideas of Race in Europe and the Atlantic World
HIS 1264H	Jewish Identity
HIS 1265H	Atrocities and Memory in Postwar Europe and North America
HIS 1268H	The Holocaust and World War II
HIS 1271H	Modern Political Trials
HIS 1275H	Imperial Germany, 1871–1918
HIS 1279H	World War II in East Central Europe (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 1286H	Categories of Imperial Russian Social History
HIS 1287H	Polish Jews Since the Partitions of Poland
HIS 1290H	Topics in Imperial Russian History
HIS 1293Y	Kievan Rus'
HIS 1295H	Soviet History Seminar
HIS 1296H	Stalinism
HIS 1297H	National Survival in Eastern Europe Since 1848
HIS 1419H	Science and Society in Britain, 1600–1800

JHP 1289Y	Twentieth-Century Ukraine
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Political Science

For a full listing of courses, see the Political Science entry in this calendar.

JRA 2391H	Topics in Comparative Politics V
POL 2308Y	Politics of Transition in Eastern Europe
POL 2324H	Ethnonationalism and State-Building: The Communist and Post-Communist Experience
POL 2337H	Government Law and Politics in Russia
POL 2341H	Topics in Ukrainian and Post-Soviet Politics
POL 2344H	Politics of Independent Ukraine
POL 2429H	Nationalism, Ethnic Conflict, and Democracy

Slavic Languages and Literatures

For a full listing of courses, see the Slavic Languages and Literatures entry in this calendar.

Croatian and Serbian Literatures

SLA 1507H	Modern Croatian Bards
SLA 1517H	Modern Serbian Bards
SLA 1520H	Bosnia in Literature and Culture: Between Croats and Serbs
SLA 1521H	Topics in Modern Croatian Literature
SLA 1522Y	The Modern Serbian Novel
SLA 1537H	Political Drama from Dubrovnik to the Danube
SLA 1547H	South Slavic Folklore

Czech and Slovak Literatures

SLA 1603H	Lifting the Iron Curtain: Czech Culture of the Sixties in Context
SLA 1605H	Modern Czech Drama
SLA 1606H	Public Places and Private Spaces in Czech Short Story

Polish Literature

SLA 1304H	Staging God, Man, and History: Polish Drama
SLA 1306H	Polish Poetry: Shaping the National Canon
SLA 1308Y	Topics in Polish Literature

Degree and Diploma Programs by Graduate Unit

SLA 1312Y	Modernism and Postmodernism in Polish Literature
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Russian Literature

SLA 1202H	Gulag Literature
SLA 1203H	The Self and Other in Russian Prose
SLA 1204H	Contemporary Russian Literature
SLA 1207H	The Imaginary Jew
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 1232H	Russian Symbolism
SLA 1233H	Studies in Modern Russian Poets
SLA 1235H	Pasternak
SLA 1238H	Chekhov
SLA 1239H	Vladimir Nabokov
SLA 1240H	Tolstoy
SLA 1241H	Narrative and History
SLA 1410H	Gogol
SLA 1411H	Experiments in Art in the Late Russian Empire-Early Soviet Union

Ukrainian Literature

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

General Slavic

SLA 1037Y	Theatre and Cinema in Extremis: Staging Twentieth-Century Aesthetics and Politics
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SLA 1039H	Kyiv-Kiev-Kijow: A City through Cultures and Centuries
SLA 1310H	Theatre in the Twentieth Century
SLA 1421H	Women in East European Fiction
SLA 1521H	Post-Modernity and the Mythopoetic Legacy of Mitteleuropa

Reading and Research Courses

ERE 1997H	Reading and Research
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
 Bathelt, Harald - MA, PhD, CRC
 Bergen, Doris - MA, PhD
 Braun, Aurel - BA, MA, PhD
 Brym, Robert - BA, MA, PhD
 Day, Richard - BA, MA, PhD
 Dimnik, Martin - BA, MA, MDiv, DPhil
 Fennner, Angelica - BA, MA, PhD
 Goetschel, Willi - PhD
 Hansen, Randall - BA, MPH, PhD, CRC (**Director**)
 Kivimae, Juri - AM, PhD
 Knop, Karen - BSc, LLB, LLM, SJD
 Kopstein, Jeffrey - BA, MA, PhD
 Koznarsky, Taras - MA, PhD
 Kramer, Christina - BA, MA, PhD
 Lahusen, Thomas - MA, PhD
 Livak, Leonid - BA, AM, PhD
 Magocsi, Paul - BA, MA, MA, PhD, FRSC
 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
 Schallert, Joseph - PhD
 Smith, Alison - AM, PhD (**Graduate Coordinator**)
 Soldovieri, Stefan - BA, MA, PhD
 Stock, Markus - MA, PhD
 Subtelny, Maria - BA, PhD
 Tarnawsky, Maxim - BA, PhD
 Trojanowska, Tamara - MA, PhD
 Viola, Lynne - BA, MA, PhD
 Wittmann, Rebecca - AB, MA, PhD
 Wrobel, Piotr Jan - MA, PhD
 Zilcosky, John - BA, MA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Members Emeriti

Dowler, E Wayne - BA, AM, PhD
Eddie, Scott - BS, PhD
Gregor, Richard - BA, MA, PhD
Griffiths, Franklyn Jc - BA, MIA, PhD
Johnson, Robert - BA, PhD
Lindheim, Ralph - BA, MA
Solomon, Susan - BA, MA, PhD

Associate Members

Jenkins, Jennifer - BA, MA, PhD
Korteweg, Anna - BA, MA, PhD
Schatz, Edward - PhD
Schonberg, Michal - BA, MA, PhD
Way, Lucan Alan - BA, PhD

Exercise Sciences

Faculty Affiliation

Kinesiology and Physical Education

Degree Programs

Exercise Sciences

MSc

PhD

Kinesiology

MPK

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. **Musculoskeletal Sciences**
 - Exercise Sciences, MSc, PhD
6. **Public Health Policy**
 - Exercise Sciences, MSc, PhD
7. **Sexual Diversity Studies**
 - Exercise Sciences, MSc, PhD
8. **Women and Gender Studies**
 - Exercise Sciences, MSc, PhD
9. **Women's Health**
 - Exercise Sciences, MSc, PhD

Overview

The field of exercise sciences is interdisciplinary. The Graduate Department of Exercise Sciences offers a Master of Science and Doctor of Philosophy in Exercise Sciences and a Master of Professional Kinesiology in Kinesiology.

The **Master of Science** and **Doctor of Philosophy** programs are intended to broaden students' understanding of the various interdisciplinary aspects of the exercise sciences and to provide them with the necessary scholarly and technical research skills to pursue a high-quality research project.

The **Master of Professional Kinesiology** program is intended to provide an advanced level of research-

Degree and Diploma Programs by Graduate Unit

informed educational and leadership experiences in the field of professional kinesiology. There is a strong emphasis on practica to gain applicable experience.

All degree programs are 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 and athletic strength and conditioning
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
10. Health care provision as a kinesiologist
11. Biomechanics and ergonomics.

Contact and Address

Web: www.exs.utoronto.ca

Email: exs.kpe@utoronto.ca

Telephone: (416) 978-6087

Fax: (416) 971-2118

Graduate Department of Exercise Sciences
Faculty of Kinesiology and Physical Education
University of Toronto
55 Harbord Street
Toronto, Ontario M5S 2W6
Canada

Degree Programs Exercise Sciences

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Exercise Sciences' additional admission requirements stated below.
- 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 2.0 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
 - 0.5 FCE Statistics or Methodology course

Degree and Diploma Programs by Graduate Unit

- 1.0 FCE from either Exercise Sciences or another department
- Graduate seminar in Exercise Sciences
- 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);
12 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. Applicants must also satisfy the Graduate Department of Exercise Sciences' additional admission requirements stated below.
- Completion of an 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 1.5 full-course equivalents (FCEs) as follows:
 - 1.0 FCE from either Exercise Sciences or another department
 - 0.5 FCE Statistics or Methodology course
 - Graduate seminar in Exercise Sciences
- All courses must be approved in advance by the student's supervisor and the Graduate Department of Exercise Sciences.
- The student's annual program plan must be approved by the 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.

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.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Course List

EXS 1150H	Safeguarding Youth in Sport
EXS 1152H	Psychological Factors in Sport-Related Concussion
EXS 5502H	Aging and Functional Capacity: an Integrative Approach
EXS 5503H	Adaptations to Habitual Activity
EXS 5505H	Neuromotor Behaviour: Sensory Information Utilization During Goal-Directed Movements
EXS 5507H	Desire and Bodies in Place
EXS 5508H	Cardiovascular Disease and Exercise
EXS 5509H	Applied Muscle Physiology and Biochemistry
EXS 5510H	Qualitative Inquiry and Physical Cultural Studies
EXS 5513H	Current Issues in Exercise Psychology
EXS 5514H	Human Sensory and Motor Neurophysiology
EXS 5515H	Research Methods in Physical Activity and Health
EXS 5516H	Exercise Psychology
EXS 5518H	Theoretical Issues in the Sociocultural Study of Physical Activity and Health

EXS 5520H	Positive Psychology: Psychosocial Factors in Optimal Health and Wellness
EXS 5521H	Stress and Coping
EXS 5525H	Quantitative Motion Analysis
EXS 5530H	Extreme Human Physiology
EXS 5531H	Skeletal Muscle Plasticity
EXS 5532H	Knowledge Translation
EXS 5533H	Current Issues in Sport Psychology
EXS 5534H	Sport, International Development, and Peace
EXS 7001H	Directed Reading in Exercise Sciences
EXS 7002H ⁺	Directed Research Project in Exercise Sciences
JXP 5807H	Health Communications
SRM 3335H ⁺	Graduate Seminar Master's
SRD 4445H ⁺	Graduate Seminar Doctoral

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

Kinesiology

Master of Professional Kinesiology

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Graduate Department of Exercise Sciences' additional admission requirements stated below.
- Applications must be received by March 1.
- A four-year bachelor's degree in Kinesiology, Human Kinetics, or related degree with a minimum GPA of 3.3 (77/100).
- Résumé.
- Two letters of reference. At least one letter must be from an academic referee.
- Letter of intent which identifies the area of interest and reasons for pursuing the program.
- Proficiency 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 Faculty prefers the Test of English as a Foreign Language (TOEFL), with the following minimum scores:
 - Paper-based test: 600 with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE);

Degree and Diploma Programs by Graduate Unit

- Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.

Program Requirements

Successful completion of 12.0 full-course equivalents (FCEs) as listed below. Consult the department for more details on sequence and timing of courses.

EXS 4000Y	Introduction to Professional Kinesiology
EXS 4001H	Clinical Aspects of Assessment
EXS 4002H	Biophysical Assessments
EXS 4003H	Behavioral Assessment
EXS 4004H	Clinical Interventions
EXS 4005H	Biophysical Interventions
EXS 4006H	Behavioral Interventions
EXS 4007H	Professional Practice 1a
EXS 4008H	Evidence Supported Practice
EXS 4009H	Health and Performance Status: Determinants and Consequences
EXS 4010H ⁺	Professional Practice 1b
EXS 4011H	Professional Practice 2a
EXS 4012H	Treatment Interactions
EXS 4013H	Practice Setting Considerations
EXS 4014H	Professional Practice 2b
EXS 4015H	Professional Practice 3
EXS 4016H	Clinical Reasoning and Case Study Research Project
EXS 4017H	Selected Topics in Professional Kinesiology
EXS 8001H	Practicum 1
EXS 8002Y ⁺	Practicum 2
EXS 8003Y	Practicum 3

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

Program Length: 4 sessions full-time (typical registration sequence: F/W/S/F)

Time Limit: 3 years

Graduate Faculty

Full Members

Amara, Catherine - BSc, MSc, PhD
 Atkinson, Michael - BA, MA, PhD (**Acting Vice-Dean, Academic Affairs**)
 Chapman, Kenneth - MSc, MD

Degree and Diploma Programs by Graduate Unit

Corey, Paul - BSc, MA, PhD
Darnell, Simon Cale Decker - BA, 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 - MHK, MSD, DipPE (**Dean**)
Kerr, Gretchen - BPHE, MA, PhD (**Acting Dean**)
Kidd, Bruce - BA, AM, MA, PhD, OC
Lenskyj, Helen - BA, MA, PhD
Locke, Marius - BA, BSc, PhD (**Director of Graduate Studies**)
MacNeill, Margaret - BPHE, MA, PhD
Mainwaring, Lynda - BA, MHK, PhD, CPsych
McKee, Nancy - MD
Plyley, Michael - PhD
Shek, Pang - BSc, MSc, PhD
Thomas, Scott - BSc, MSc, PhD
Tremblay, Luc - BSc, MSc, PhD (**Associate Dean, Research**)
Wells, Greg - BPHE, MSc, PhD
Welsh, Timothy - BPHE, MSc, PhD

Members Emeriti

Radomski, Manny - PhD
Shephard, Roy - BSc, BS, MB, MD, PhD

Associate Members

Falk, Bareket - BEd, MSc, PhD
Frost, David - BScEE, BA, BPHE, MSc, DPhil
Hutchison, Michael - BPHE, MSc, PhD
Leatherdale, Scott - MA, PhD
Mertens, Luc - MD
Moore, Daniel - BAsC, PhD
Notarius, Cathy - BPHRE, MSc, PhD
Oh, Paul - MSc, MD
Riazi, Sheila - MSc, MD
Richards, Douglas - MD
Schneiderman, Jane - BE, MS, PhD
Taha, Timur - BA, MEd, PhD
Tamminen, Katherine - BA, MA, PhD

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. It provides 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@economics.utoronto.ca

Telephone: (416) 978-8623

Master of Financial Economics Program
Department of Economics
University of Toronto
150 St. George Street
Toronto, Ontario M5S 3G7
Canada

Degree Program

Master of Financial Economics

Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the program's additional admission requirements stated below.
- 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.

Degree and Diploma Programs by Graduate Unit

- Evidence of strong communication skills, both oral and written.
- Relevant work experience and/or 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 RSM 2306H *Options and Futures Markets*, RSM 2300H *Corporate Financing*, RSM 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.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F)

Time Limit

3 years full-time

Graduate Faculty

Economics

Aivazian, Varouj - BS, MA, PhD
Alexopoulos, Michelle - BSc, MA, PhD
Cziraki, Peter – MA, MPH, MSc, PhD
Malinova, Ekaterina - BS, MA, PhD
Melino, Angelo - BA, PhD (**Co-director**)
Mondria, Jordi - BA, MA, PhD (**Co-director**)
Park, Andreas - MEc, MPh, PhD
Stewart, Colin - BSc, MA, MPH, MSc, PhD
Zhu, Xiaodong - PhD

Degree and Diploma Programs by Graduate Unit

Management

Christoffersen, Peter - BEc, PhD

Doidge, Craig Andrew - BComm, MSc, PhD

Hull, John - BA, MA, MA, PhD

McCurdy, Thomas - AB, MEc, DPhil

Wang, Qing (Kevin) - BS, MA, PhD

White, Alan - BE, MBA, DPhil

Forestry

Faculty Affiliation

Forestry

Degree Programs

Forest Conservation

MFC

Forestry

MScF

PhD

Collaborative Programs

The following collaborative program is available to students in participating degree programs as listed below:

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 international field courses, practical internships, and individual and group research. It provides a strong, coherent professional education in forest conservation to students from diverse educational 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@wpine.forestry.utoronto.ca

Telephone: (416) 946-7952

Fax: (416) 978-3834

Faculty of Forestry

University of Toronto

Earth Sciences Centre

33 Willcocks Street

Toronto, Ontario M5S 3B3

Canada

Degree Programs

Forest Conservation

Master of Forest Conservation

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Forestry's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with an average in each of 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 appropriate background courses prior to admission.
- Additional documentation must be submitted to the department with the completed application form, including transcripts, three references, a letter of interest in the MFC program, and a resumé. Full instructions and forms are available at the Faculty's website.

Program Requirements

- The program starts in September and requires full-time intensive involvement throughout. It is also possible to complete the MFC degree through full-time, extended full-time, or part-time studies. Information on specific course requirements is included on the Faculty's website.
- Full-time students can elect an extended full-time (EFT) option. Under this option, students are allowed an extra year to complete their studies while paying the same academic fees as regular full-time students. Students would, however, pay full-time incidental fees for each year of registration. EFT option students must complete FOR 3000H, FOR 3001H, and FOR 3012H in their first session. The remaining MFC course requirements can be

Degree and Diploma Programs by Graduate Unit

completed in any order except that FOR 3007H must be taken before FOR 3008H.

- A total of 7.5 full-course equivalents (FCEs) as follows: 6.0 FCEs in FOR courses plus 1.5 elective FCEs. Elective course selection will include the successful completion of one 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. Students may take the remaining 1.0 elective FCE in any session of their program.
- MFC requirements and expected chronology for regular full-time students:
 - **Year 1: Fall**
 - 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 3012H *Analytical Methods in Forestry*
 - **Year 1: Spring**
 - FOR 3004H *Forest Management Decision Support Systems*
 - FOR 3005H *Stresses in the Forest Environment*
 - FOR 3009H *Forest Conservation Biology*
 - FOR 3010H *Society and Forest Conservation*
 - **Year 1: Summer**
 - FOR 3007H *Internship in Forest Conservation*
 - FOR 3011H *International Forest Conservation Field Camp* **or**
 - FOR 1585H *Urban Forest Conservation Field Camp* **or** alternate eligible field course
 - **Year 2: Fall**
 - FOR 3006H *Case Study Analysis in Forest Management*
 - FOR 3008H *Capstone Project in Forest Conservation*
- Students may take the remaining 1.0 elective FCE in any session of their program for a total program requirement of 7.5 FCEs.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);

7 sessions extended full-time (typical registration sequence: F/W/S/F/W/S/F);

12 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Forestry

Master of Science in Forestry

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Forestry's additional admission requirements stated below.
- An appropriate bachelor's degree 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 a completed application form, including transcripts, three references, a letter of intent, a resumé, and a writing sample. Full instructions and forms are available via the Faculty's website.

Program Requirements

- The 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 of Forestry and the School of Graduate Studies.
- Minimal requirements for this degree are:
 - 12 months of residence including two academic sessions.
 - 1.0 full-course equivalent (FCE) as follows:
 - FOR 1001H *Graduate Seminar* plus
 - 0.5 FCE elective.
 - Depending on the student's background, additional or alternative coursework may be required.
 - The preparation of a research thesis of acceptable quality and its oral defence.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Forestry's additional admission requirements stated below.
- Applicants are admitted to the four-year PhD program via one of three routes:

1. **Master's degree:** an appropriate master's degree from a recognized university with at least an A- standing, in a discipline appropriate to the intended field of doctoral study and research.
2. **Direct entry:** in exceptional circumstances, an extraordinarily strong applicant with an appropriate bachelor's degree from a recognized university.
3. **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 resumé, and a writing sample. Full instructions and forms are available via the Faculty's website.

Program Requirements

- Minimum PhD program requirements (master's degree, direct entry, and transfer admission categories listed above):
- A minimum of three half courses (1.5 FCEs) must be taken. Transfer students can use courses completed towards meeting MScF program requirements to meet this requirement. 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.
- FOR 1001H *Graduate Seminar*. Transfer students require credit for FOR 1001H only once.
- Successful completion of a qualifying appraisal examination. The examination will be oral and will ordinarily be taken prior to the completion of 16 months in the program. There are three possible outcomes: pass, decision deferred pending supplementary undertakings, or unsatisfactory. If there is more than one negative vote, the outcome will be judged unsatisfactory. Students are permitted one further attempt.
- 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.

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 website each session to confirm availability. A maximum of one directed studies course taken with a student's supervisor can be credited towards meeting departmental degree program requirements.

FOR 1000H	Research Methods in Forestry (Credit/No Credit)
FOR 1001H ⁰	Graduate Seminar (Credit/No Credit)
FOR 1270H	Forest Biomaterial Sciences: Fundamentals, Applications, and the Next Frontier
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 1416H	Forest Fire Danger Rating
FOR 1555H	Wildlife Ecology and Conservation
FOR 1570H	Ecological Principles of Agroforestry
FOR 1575H	Urban Forest Conservation
FOR 1585H	Urban Forest Conservation Field Camp
JFG 1610H	Sustainable Forest Management and Certification
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

Degree and Diploma Programs by Graduate Unit

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	Capstone Project in Forest Conservation
FOR 3009H	Forest Conservation Biology
FOR 3010H	Society and Forest Conservation
FOR 3011H	International Forest Conservation Field Camp (Credit/No Credit)
FOR 3012H	Analytical Methods in Forestry

^o 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

Allison, Jeremy D. - PhD
 Carleton, Terence - BSc, MSc, PhD
 Caspersen, John - BA, PhD
 Kant, Shashi - BE, MA, PhD
 Malcolm, Jay - BSc, MSc, PhD (**Graduate Coordinator**)
 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
 Thomas, Sean - BA, PhD
 Wotton, Brian Michael - BSc, PhD
 Yan, Ning - BSc, PhD, PEng

Members Emeriti

Aird, Paul - BSc, MS, PhD
 Balatinecz, John - BSF, MF, PhD
 Blake, Terence - DipFor, BScF, STB, MF, PhD
 Bryan, Rorke - BA, PhD
 Hubbes, Martin - PhD
 Nautiyal, Jagdish - BSc, MF, PhD
 Roy, Dibyendu - BSc, MA, DPhil
 Timmer, Victor - BScF, MScF, PhD

Associate Members

Achim, Alexis - BScF, PhD
 Bellocq, Isabel - BSc, MSc, PhD

Bourchier, Robert - BA, MSc, PhD
 Cole, William - BScF, MScF, PhD
 Colombo, Stephen - BScF, MScF, PhD
 Couto, Laercio - PhD
 de Groot, W.J. - BSc, PhD
 Feng, Martin W. - MSc
 Flannigan, Mike - BSc, MS, PhD
 Fleming, Richard - BSc, PhD
 Jaffer, Shaffiq - BScHE, PhD
 Jones, Trevor A - BSc, MSc, PhD
 Kayahara, Gordon John - MSc, PhD
 Kenney, Andrew - BSc, MSc, PhD
 Kuhlberg, Mark - MA, PhD
 Laaksonen-Craig, Susanna - MSc, PhD
 Lantz, Van - BEc, MEc, PhD
 Maynard, Alex - BA, MA, MPH, PhD
 McKenney, Daniel - BSc, MSc, PhD
 Moola, Faisal - BSc, MSc, PhD
 Morris, Dave - BScF, MSc, PhD
 Nanang, David - BSc, MScF, PhD
 Navar, Jose de Jesus - BScF, MScF, PhD
 Nayak, Sanjay K. - BSc, MSc, PhD, DSc
 Naylor, Brian - BScF, PhD
 Nol, Erica - BS, MSc, PhD
 Oksman, Kristiina - MSc, PhD
 Peng, Changhui - BSc, PhD
 Pinto, Fred - BScF, MScF
 Ray, Justina - BS, MS, PhD
 Regniere, Jacques - BSc, PhD
 Richards, Evelyn - BSc, MSc, PhD
 Sastry, Cherla - BSc, MSc, PhD
 Schleifenbaum, Peter C. - PhD
 Singh, Ashbindu - PhD
 Smith, Margaret Anne (Peggy) - BSc, PhD
 Spiecker, Heinrich - MSc, PhD
 Stocks, Brian - BScF, MScF
 Tenkate, Thomas - BASc, MASc, PhD
 Thompson, Ian D. - BSc, MSc, PhD
 Tjong, Jimi - BASc, MASc, PhD
 Vanderwel, Mark C. - BSc, MScF, PhD
 Wang, Sen - BA, MSc, PhD
 Webster, Kara L. - BSc, MSc, PhD
 Wetzel, Suzanne - BScF, PhD
 White, William A. - BSc, MA, PhD
 Wilson, Edward - BScF, BScF, BScF
 Woolford, Douglas - BSc, MMath, PhD
 Zimmerman, Barbara - BSc, MSc, PhD

French Language and Literature

Faculty Affiliation

Arts and Science

Degree Programs

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. **Sexual Diversity Studies**
 - French Language and Literature, MA, PhD
3. **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 and/or 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.

Contact and Address

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Department of French Language and Literature
University of Toronto
50 St. Joseph Street

Degree and Diploma Programs by Graduate Unit

Toronto, Ontario M5S 1J4
Canada

Degree Programs

French Language and Literature

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of French Language and Literature's additional admission requirements stated below.
- 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 4.0 full-course equivalents (FCEs) as follows:
 - Students in **literature** take the three graduate seminars in literature (FRE 1202H, FRE 1203H, and FRE 1204H) and
 - 2.5 FCEs from the regular graduate course 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 in **linguistics** take the graduate seminars in linguistics (FRE 1103H, FRE 1104H, and FRE 1141H) 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 seminars in literature (FRE 1202H, FRE 1203H, and FRE 1204H) or the graduate

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seminars in linguistics (FRE 1103H, FRE 1104H, and FRE 1141H).

- Up to 1.0 FCE may be taken outside the department, with the permission of the Associate Chair, Graduate.
- Normally, part-time students take the graduate seminars in literature or the graduate seminars in linguistics during the first year of their programs.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 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. Applicants must also satisfy the Department of French Language and Literature's additional admission requirements stated below.
- Admission to the PhD program is available via one of two routes:
 1. An appropriate **bachelor's degree** with high academic standing from a recognized university that includes at least 7.0 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.
 2. 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 1.0 FCE in the first year of the program, and 1.0 FCE in the second year, outside the department. Students in literature take FRE 1202H, FRE 1203H, FRE 1204H, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, FRE 1141H, 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 1.0 FCE outside the department. Students in literature take FRE 1202H, FRE 1203H, and FRE 1204H, unless these courses or their equivalents have already been completed, and FRE 1201H as part of their program; students in linguistics take FRE 1103H, FRE 1104H, and FRE 1141H 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.
- Thesis proposal. A written thesis proposal, of 15 to 20 pages plus bibliography, must be submitted one week before the date of the oral field examination in April (see below).
- Language requirements. By the end of the first year of the PhD program, in the case of a student admitted on the basis of a master's degree, otherwise by the end of the second year of 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.
- Field examination. According to the deadlines below, in the second year of registration in the PhD program, or in the third year for direct-entry,

a student must pass the two parts of the field examination:

- A written examination (to be taken by March 15), based on a written field examination document of 10 to 15 pages, plus bibliography (due by November 15 of the second year of doctoral studies), designed to test the student's knowledge of the general area in which his or her research is located; the questions for the examination are given to the student a week in advance of the examination. A student may not proceed to the oral part of the examination until he/she has successfully completed the written part. In the case of a failure, the supervisory committee will meet with the student in order to discuss the weaknesses that caused the failure and to make specific recommendations concerning the student's program. The committee may recommend that the written part of the examination be retaken in whole or in part within a specific period of time; it may also recommend termination of the student's program. If the recommendation is to retake the exam, the student may retake the written part of the examination once only.
- An oral examination (to be taken by April 30) based on the thesis proposal, designed to test the student's readiness to proceed with thesis research. In the case of a failure, the supervisory committee will meet with the student in order to discuss the weaknesses that caused the failure and to make specific recommendations concerning the student's program. The committee may recommend that the examination be retaken within a specific period of time; it may also recommend termination of the student's program. If the recommendation is to retake the exam, the student may retake the oral part of the examination once only.
- 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.

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.

Core Courses

Linguistics Courses

FRE 1103H	Séminaire de linguistique I : Phonétique et phonologie
FRE 1104H	Séminaire de linguistique II : Syntaxe
FRE 1141H	Séminaire de linguistique III : Linguistique expérimentale et linguistique de corpus

Literature Courses

FRE 1202H	Séminaire de littérature 1 : théorie
FRE 1203H	Séminaire de littérature 2 : période
FRE 1204H	Séminaire de littérature 3 : genre

Linguistic and Literature Courses

FRE 1201H	Méthodes de recherche (Credit/No Credit—for PhD students only)
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Elective Courses

Not all courses are offered every year. Please consult the department regarding course availability.

Linguistics Courses

FRE 1124H	Syntaxe de l'ergativité : le français dans tous les cas
FRE 1125H	Morphologie et sémantique
FRE 1129H	Didactique du français langue seconde: quelle(s) méthode(s) pour quel(s) apprentissage(s)?
FRE 1132H	Problèmes de phonologie : les créoles à base lexicale française
FRE 1133H	L'acquisition du français langue première
FRE 1136H	Arguments, structures et représentations en français
FRE 1137H	Les mots complexes : études de cas en morphologie
FRE 1138H	Bilinguisme et acquisition du langage
FRE 1139H	La variation sociolinguistique en français parlé
FRE 1140H	La syllabe : études expérimentales et théoriques
FRE 1164H	Initiation au français médiéval

Literature Courses

FRE 1210H	Tristan et Iseult, « mythe européen »
FRE 1301H	Le merveilleux dans la littérature médiévale : le Voyage de Saint Brendan

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FRE 1306H	Chanson de Roland
FRE 1310H	Le <i>Roman de la rose</i> et l'allégorie médiévale
FRE 1311H	Sexe, mensonge et littérature : le <i>Roman de Renart</i>
FRE 1500H	François Villon
FRE 1600H	L'humanité de l'homme
FRE 1601H	Histoires de l'homme
FRE 1612H	Satire et parole libre dans la littérature des XVI ^e et XVII ^e siècles
FRE 1613H	Les récits de voyage dans la littérature française des XVI ^e et XVII ^e siècles
FRE 1614H	Le roman aux XVI ^e et XVII ^e siècles
FRE 1805H	Écrivains et penseurs de la modernité : Rousseau
FRE 1806H	Libertins, libertines et libertinage dans le roman du XVIII ^e siècle
FRE 1813H	Littérature de contact et pensée anthropologique en France du XVI ^e au XVIII ^e siècle
FRE 1815H	Théorie de l'histoire
FRE 1901H	Le récit de voyage au XIX ^e siècle
FRE 1905H	Baudelaire et la modernité symboliste (1850–1900)
FRE 1906H	Théories du rire et analyse littéraire du genre comique
FRE 1924H	Balzac et le discours préfaciel
FRE 1928H	Zola et le naturalisme : du « roman expérimental » au « roman nouveau »
FRE 1936Y	Littérature et société : Roman et Révolution
FRE 2000H	L'éclatement de la poétique : poésie et roman du XX ^e siècle
FRE 2001H	Fragment et fragmentation au XX ^e siècle
FRE 2004H	Formes et voies romanesques de l'extrême contemporain
FRE 2007H	Littérature et éthique : nouveaux textes, nouvelles problématiques
FRE 2010H	Proust : qu'est-ce que l'écriture
FRE 2035H	Autour de l'intime en France: les écrits contemporains des femmes
FRE 2036H	Configurations du genre sexuel dans la prose contemporaine des femmes

FRE 2037H	Écriture et folie
FRE 2039H	Roman et critique sociale aux XX ^e et XXI ^e siècles
FRE 2040H	Entre écrit et oral : Enjeux théoriques et identitaires dans les écritures francophones
FRE 2041H	Mémoires (Post)coloniales
FRE 2042H	Intertextualité
FRE 2078H	Altérité : formes et significations
FRE 2079H	Le Roman postmoderne
FRE 2080H	Le sujet en mouvement : migrant et transnational
FRE 2092H	La genèse et personnage
FRE 2100H	Du texte à l'image : Images photographiques et cinématographiques dans quelques textes contemporains
FRE 2103H	La nouvelle québécoise contemporaine : l'émergence des voix féminines
FRE 2105H	Écritures du moi: de la représentation textuelle à la représentation visuelle du sujet écrivain
FRE 2107H	Le récit fantastique québécois : formes et transformations
FRE 3000H	Du dialogue au dialogique
FRE 3001H	Poésie et philosophie : du devoir de bavarder de notre Être-là
FRE 3002H	Pourquoi la poésie
FRE 3004H	Rencontres et compagnonnages au cœur de l'oeuvre
FRE 3005H	Méthodologie de l'analyse du dialogue romanesque
JFF 1100H	Surréalisme et cinéma/Surrealism and French Cinema

Other Courses

FRE 4000Y	Reading Course
FRE 4001H	Reading Course
FRE 4002H	Reading Course
FRE 5000Y ⁰	Research Essay (MA)
FRE 5001H ⁰	Research Essay (MA)

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

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Joint Courses

JFC 1255H	Aspects du Structuralisme
JFC 1813H	Littérature de contact et pensée anthropologique en France du XVI ^e au XVIII ^e siècle / Literature of Contact and Anthropological Thought, 16th–18th Century
JFC 5025H	Feminism and Postmodernism: Theory and Practice
JFC 5056H	Auto-Biography, Photography, Narrativity
JFC 5105H	Collections of Knowledge: Encyclopedism and Travel Literature in Early Modern Europe (1500–1800)
JFC 5120H	The Gift: Stories of a Paradigm
JFF 1100H	Surréalisme et cinéma/Surrealism and French Cinema
JIF 1000H	Romance Philology I
JRL 1110H	Second Language Acquisition of Romance Languages
JRL 1111H	Second Language Acquisition of Romance Phonology

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	Book History and Print Culture
MST 3155H	Chrétien de Troyes, Perceval

Sexual Diversity Studies

SDS 1000H	Theoretical and Methodological Issues in Sexual Diversity Studies
SDS 1999H	Special Topics in Sexual Diversity Studies

Graduate Faculty

Full Members

Bhatt, Parth - BA, MA, PhD
 Brousseau, Anne-Marie - PhD
 Cozea, Angela - BA, MA, PhD
 Denoyelle, Corinne - BLitt, DLitt (**Coordinator, Graduate Admissions and Funding**)

Elkabas, Charles - BA, MA, PhD
 Havercroft, Barbara - BA, MA, PhD (**Associate Chair and Coordinator of Graduate Studies**)
 Holtz, Gregoire - LèsL, MA, DLitt
 Kullmann, Dorothea - PhD
 Le Huenen, Roland - DesL, DLitt
 LeBlanc, Julie - BA, PhD
 Lord, Michel - BA, MA, PhD
 Michelucci, Pascal - BA, MA, PhD (**Chair and Graduate Chair**)
 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
 Tcheuyap, Alexie - BA, MA, PhD

Members Emeriti

Bertrand-Jennings, Chantal - LèsL, PhD
 Boursier, Nicole - BLitt, DesL, PhD
 Cloutier-Wojciechowska, Cecile - BA, MA, LèsL, DUP
 De Kerckhove, Derrick - BA, MA, PhD
 Falconer, Alexander - MA, DDeL'UN
 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
 Lehouck, Emile - BA, DesL
 McClelland, John Alan - PhD
 Nesselroth, Peter - BA, MA, PhD
 O'Neill-Karch, Mariel - BA, MA
 Perron, Paul - PhD
 Savona, Jeannelle - DipdESup, BA, BA, DesL
 Smith, David - BA, PhD, PhD
 Taylor, Robert - PhD
 Tolton, Cameron - PhD
 Wooldridge, Terence - BA, DDeL'UN

Associate Members

Besnard, Christine - BA, MA, PhD
 Cahill, James - AB, MA, MA, PhD
 Cobb, Michael - BA, MA, AM, PhD
 Cochelin, Isabelle - DipdESup, BA, MA, PhD
 Cuervo, Maria Cristina - PhD
 Danesi, Marcel - BA, MA, PhD
 Drouin, Sebastien - BA, MA, PhD
 Glinier, Anthony - BA, MA, PhD
 Helms-Park, Rena - BA, MA, AM, DPhil
 Jennings, Eric - BA, PhD
 Kingston, Rebecca - BA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Labrie, Normand - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Liakin, Denis - BA, MA, PhD
Massam, Diane - BA, MA, PhD
Mavrikakis, Catherine - BA, MA, PhD
Nagy, Naomi - BA, PhD
Papillon, Joelle - PhD
Perez-Leroux, Ana Teresa - MA, PhD
Peterson, Jordan - BA, BA, PhD
Pioffet, Marie-Christine - BLitt, MA, DLitt
Sarabia, Rosa - BA, PhD
Schallert, Joseph - PhD
Smyth, Ronald - BA, MSc, PhD
Spada, Nina - BA, BA, MA
Theriault, Patrick - BA, MA, PhD
Thomson, Clive - BA, MA, PhD
Villeneuve, Anne-Jose - BEd, MA, MA, PhD

Geography and Planning

Faculty Affiliation

Arts and Science

Degree Programs

Geography

MA	<i>Fields:</i>
MSc	Urban/Economic Geography
PhD	Physical Geography and Natural Systems
	Environmental Geography and Resource Management
	Historical, Social, and Cultural Geography
	Spatial Information Systems

Planning

MScPI	<i>Fields:</i>
	Urban Planning and Development
	Environmental Planning
	Social Planning and Policy
	Economic Planning and Policy
	Urban Design
PhD	<i>Fields:</i>
	Cities in Global Context: Economic Development and Social Planning
	Environmental and 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, PhD
- 2. Asia-Pacific Studies**
 - Geography, MA
 - Planning, MScPI
- 3. Community Development**
 - Geography, MA
 - Planning, MScPI
- 4. Diaspora and Transnational Studies**
 - Geography, MA, MSc, PhD
- 5. Environment and Health**
 - Geography, MA, MSc, PhD
 - Planning, MScPI, PhD
- 6. Environmental Studies**

Degree and Diploma Programs by Graduate Unit

- Geography, MA, MSc, PhD
 - Planning, MScPI, PhD
- 7. Ethnic and Pluralism Studies**
 - Geography, MA, PhD
 - 8. Global Health**
 - Geography, PhD
 - Planning, PhD
 - 9. Jewish Studies**
 - Geography, PhD
 - 10. Sexual Diversity Studies**
 - Geography, MA, PhD
 - 11. South Asian Studies**
 - Geography, MA, PhD
 - 12. Women and Gender Studies**
 - Geography, MA, MSc, PhD
 - Planning, MScPI, PhD

Overview

The Department of Geography and Planning offers facilities for research leading to the degrees of **Master of Arts (MA)**, **Master of Science (MSc)**, **Master of Science in Planning (MScPI)**, 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.

Contact and Address

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Degree and Diploma Programs by Graduate Unit

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Department of Geography and Planning

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Canada

Degree Programs Geography

Master of Arts and Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Geography and Planning's additional admission requirements stated below.
- 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.
- **Option I: Thesis.** Students undertake research leading to the preparation of a thesis (RST 9999Y), in conjunction with at least the equivalent of 1.5 FCEs in coursework including the core course (0.5 FCE in GGR 1105H for MA students, GGR 1200H

for MSc students), 0.5 FCE elective in geography or from an approved list of courses available from the department, and an additional 0.5 FCE in elective courses that may be taken inside or outside the department.

- **Option II: Research Paper.** Students will undertake research leading to the preparation of a major research paper (GGR 1100Y), in conjunction with the equivalent of 3.0 graduate FCEs in coursework including the core course (0.5 FCE in GGR 1105H for MA students, GGR 1200H for MSc students), 1.5 FCE elective courses in geography or from an approved list of courses available from the department, and an additional 1.0 FCE elective courses, 0.5 FCE of which must be taken outside the department.
- **Environmental Studies Research Paper (Collaborative MA/MSc Program):** 2.5 FCEs, of which 1.5 FCEs must be taken in the Department of Geography and Planning (including the core course) and 1.0 at the School of the 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 Planning (including the core course) and 1.0 FCE at the School of the Environment. Students are also required to prepare and defend a thesis. See the Environmental Studies (collaborative program) entry in this calendar.
- **Asia-Pacific Studies Thesis (Collaborative MA Program):** 2.0 FCEs, of which 1.0 FCE must be taken in the Department of Geography and Planning (including the core course) and 1.0 FCE at Asia Pacific Studies. Students are also required to prepare and defend a thesis.
- **Ethnic and Pluralism Studies Thesis (Collaborative MA Program):** 2.0 FCEs, of which 1.0 FCE must be taken in the Department of Geography and Planning, which includes the core course GGR 1105H and 0.5 FCE on a topic in ethnicity. Students are also required to complete the Ethnic and Pluralism Studies core course and an additional 0.5 FCE course on a topic in ethnicity from outside of geography. Students are also required to prepare and defend a thesis.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 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. Applicants must also satisfy the Department of Geography and Planning's additional admission requirements stated below.
- 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.

All PhD students must:

- Complete a minimum of 2.0 FCEs in coursework and, depending on the field of specialization, up to an additional 1.0 FCE. Students who enter the PhD program from a bachelor's degree must complete 1.5 FCEs in addition to the minimum requirement of 2.0 FCEs. Students who hold an appropriate master's degree but are changing disciplines or require further preparatory work may be required to complete additional coursework. Coursework requirements for each specialization are detailed below:
 - Physical Geography and Natural Systems and Spatial Information Systems fields of specialization: 2.0 FCEs, including the 0.5 FCE core course GGR 1200H, 0.5 FCE in geography courses or from a list of approved courses available from the department, and an additional 1.0 FCE in elective courses, at least 0.5 FCE of which must be taken in other departments. Students who have taken the core course (GGR 1200H) at the master's level may take an alternative geography course.
 - Environmental Geography/Resource Management, Urban/Economic Geography, Historical/Social/Cultural Geography: 3.0 FCEs, including the 0.5 FCE core course GGR 1110H, 1.0 FCE in geography courses or from a list of approved courses available from the department, and at least 0.5 FCE but no more than 1.5 FCE courses 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

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may be counted towards meeting some course requirements. However, all PhD students must complete a minimum of 2.0 FCEs after entering the PhD program.

- Submit a research statement concerning the proposed PhD topic and the scope of the PhD examination by the end of April in Year 1.
- Pass a PhD examination in the general field in which research is being undertaken between June of Year 1 and no later than October of Year 2. The scope and areas of concentration of the exam are to be determined jointly by the supervisory committee and the student. There are two components of the PhD exam:
 1. a written exam (options are an eight-hour closed room exam, a five-day off-campus exam, or a 15-day off-campus exam), and
 2. an oral exam to take place within one week of the written exam.

A student who fails the PhD examination may retake the exam once within six months. A failure of the second exam may result in a recommendation for termination of the student's program.

- Acquire knowledge of a foreign language necessary for their research upon the recommendation of their committee.
- Submit a research proposal that is acceptable to their research committee, normally by the end of the first session (December) in Year 2 and no later than February of Year 2.
- 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.
- Complete a thesis embodying the results of original investigation, conducted by the candidate, on the approved topic from a major field. The thesis shall constitute a significant contribution to the knowledge of the field and must be conducted while the student is registered in the PhD program.

PhD degree program requirements are fully described in the Graduate Geography Handbook and the department's website.

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

Degree and Diploma Programs by Graduate Unit

consult the departmental graduate office. The 2000-level courses are normally open to PhD students only.

Core Courses

GGR 1105H	Human Geography Core Course
GGR 1200H	Physical Geography Core Course
GGR 1110H	Issues in Geographic Thought and Practice

Research Methods Courses

JPG 1111H	Research Design
JPG 1140H	Discourse Analysis Methodology

Individual Topics Courses

GGR 1149H,Y	Readings in Selected Topics
GGR 2149H,Y	Readings in Selected Topics
GGR 2150H,Y	Advanced Seminar in Selected Topics
JPG 2150H	Advanced Seminars in Selected Topics

Physical Geography

GGR 1202H	Sedimentation and Fluvial Geomorphology
GGR 1211H	The Global Carbon Cycle: From Rubisco to the Earth's Mantle
JGE 1212H	Fate of Contaminants in the Environment
GGR 1214H	Global Ecology and Biogeochemical Cycles
GGR 1215H	Advanced Watershed Hydroecology
GGR 1216H	Advanced Biogeochemical Processes
GGR 1302H	Advanced Hydrology and Water Quality
GGR 1303H	Paleoecology and Paleoclimatology
GGR 1305H	Biogeography
GGR 1306H	Field Experimental Techniques in Hydroclimatology

Environmental and Resource Geography

JPG 1402H	Environment and Development
JPG 1403H	Political Ecology of African Environments
GGR 1404H	Global Warming
GGR 1406H	Energy Supply and Use
GGR 1407H	Efficient Use of Energy
GGR 1408H	Carbon-Free Energy

JPG 1410H	Institutional and Organizational Ecology
JGE 1413H	Workshop in Environmental Impact Assessment
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
JGE 1425H	Livelihoods, Poverty and Environment in the Developing Countries
JPG 1426H	Natural Resources, Difference, and Conflict
JPG 1427H	The (Re)Localization of Food Production: Debates and Controversies

Urban and Economic Geography

JPG 1428H	Managing Urban Ecosystems
JPG 1501H	The Political Economy of Cities
JPG 1502H	Global Urbanism and Cities of the Global South
JPG 1507H	Housing Markets and Housing Policy Analysis
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 1516H	Declining Cities
JPG 1518H	Sustainability and Urban Communities
JPG 1554H	Transportation and Urban Form
JPG 1556H	Transportation Systems Analysis: An Exploration of Concepts, Methods, Applications, and Emerging Issues
JPG 1558H	Transportation: Historical and Geographical Perspectives

Degree and Diploma Programs by Graduate Unit

JPG 1607H	Geography of Competition
JGE 1609H	Cities, Industry and the Environment
GGR 1610H	Geography of Finance and Financial Crisis
JPG 1614H	Regional Development and Policy
JPG 1615H	Planning and the Social Economy
JPG 1616H	The Cultural Economy
GGR 1620H	Institutional and Evolutionary Economic Geography
JPG 1660H	Regional Dynamics
JPG 1670H	Regional Economic Analysis
JPG 1809H	Spaces of Work: Value, Identity, Agency, Justice
JPG 1812Y	Planning for Change: Community Development in Practice
JGP 2408Y	Political Economy of International Development

Historical, Social, and Cultural Geography

JPG 1503H	Space, Time, Revolution
JPG 1505H	The Multicultural City: Diversity, Policy, and Planning
JPG 1506H	State/Space/Difference: Understanding the New Social Geography of the State
JPG 1520H	Contested Geographies of Class Formation
JPG 1672H	Land and Justice
JPG 1702H	Historical Urban Geography and Planning
GGR 1705H	Historical Geographies of Modernity
GGR 1706H	Geographies of Religion and Secularism
JPG 1706H	Violence and Security
GGR 1707H	Situating Identities: Geography and Autobiography
JPG 1710H	Historic Preservation Planning
JPG 1713H	Place, Design, and Landscape
GGR 1714H	Geographies of Citizenship
JPG 1802H	Political Spaces I
JPG 1804H	Space, Power and Geography: Understanding Spatiality
JPG 1805H	Transnationalism, Diaspora, and Gender
GGR 1806H	Feminist Geographies

JPG 1815H	Political Economy, the Body, and Health
Geographical Information Analysis	
JPG 1906H	Geographic Information Systems
GGR 1911H	Remote Sensing
GGR 1912H	Advanced Remote Sensing
JPG 1914H	Geographic Information Systems Research Project
GGR 1921H	Land/Geographic Information Systems
GGR 1922H	Topics in Geographical Information Science

Planning

Master of Science in Planning

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Geography and Planning's additional admission requirements stated below.
- 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 4.0 FCEs in core courses. A further 4.0 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

Degree and Diploma Programs by Graduate Unit

of the following five fields: Urban Planning and Development, Environmental Planning, Social Planning and Policy, Economic Planning and Policy, and Urban Design.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

12 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. Applicants must also satisfy the Department of Geography and Planning's additional admission requirements stated below.
- 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

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.

All PhD students must:

- Take 3.0 full-course equivalents (FCEs), if they hold a master's degree in planning comparable to the U of T MSc in Planning, as follows:
 - 1.5 FCEs in core courses
 - 1.5 FCEs in 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.

- Submit a research statement concerning the proposed PhD topic and the scope of the PhD examination by the end of April in Year 1.
- Pass a PhD examination in the general field in which research is being undertaken between June of Year 1 and no later than October of Year 2. The scope and areas of concentration of the exam are to be determined jointly by the supervisory committee and the student. There are two components of the PhD exam:

1. a written exam (options are an eight-hour closed room exam, a five-day off-campus exam, or a 15-day off-campus exam); and
2. an oral exam to take place within one week of the written exam.

A student who fails the PhD examination may retake the exam once within six months. A failure of the second exam may result in recommendation for termination of the student's program.

- Acquire knowledge of a foreign language necessary for their research upon the recommendation of their committee.
- Submit a research proposal that is acceptable to their research committee, normally by the end of the first session (December) in Year 2 and no later than February of Year 2.
- Be in residence for two years, unless otherwise specified, 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.
- Complete a thesis embodying the results of original investigation, conducted by the candidate, on the approved topic from a major field. The thesis shall constitute a significant contribution to the knowledge of the field and must be conducted while the student is registered in the PhD program.

PhD degree program requirements are fully described in the Graduate Planning Handbook and the department's website.

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 the MScPI

PLA 1101H	Issues in Planning History, Thought, and Practice
PLA 1102H	Planning Decision Methods I
PLA 1103H or PLA 1656H	Legal Basis of Planning or Land Use Planning: Principals and Practice
PLA 1105H	Planning Decision Methods II
PLA 1106Y	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

JPG 1140H	Discourse Analysis Methodology
PLA 1149H	Independent Study
PLA 1150H	Planning Field Trip Course
JPG 1402H	Environment and Development
JPG 1403H	Political Ecology of African Environments
JPG 1410H	Institutional and Organizational Ecology
JGE 1413H	Workshop in Environmental Impact Assessment
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 1426H	Natural Resources, Difference, and Conflict
JPG 1427H	The (Re)Localization of Food Production: Debates and Controversies
JPG 1428H	Managing Urban Ecosystems
JPG 1501H	The Political Economy of Cities
JPG 1502H	Global Urbanism and Cities of the Global South
JPG 1503H	Space, Time, Revolution
PLA 1503H	Planning and Social Policy
JPG 1505H	The Multicultural City: Diversity, Policy, and Planning

Degree and Diploma Programs by Graduate Unit

JPG 1506H	Urban and Regional Social Policy: An International Perspective
JPG 1507H	Housing Markets and Housing Policy Analysis
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
PLA 1514H	The Role of the Planner
JPG 1516H	Declining Cities
PLA 1516H	Special Topics in Planning II
PLA 1517H	Special Topics in Planning III
JPG 1518H	Sustainability and Urban Communities
PLA 1518H	City Building—Practice and Experience in Toronto and Other World Cities
PLA 1551H	Policy Analysis
PLA 1552H	City Planning and Management
PLA 1553H	Urban Transportation Policy Analysis
JPG 1554H	Transportation and Urban Form
JPG 1556H	Transportation Systems Analysis
JPG 1558H	Transportation: Historical and Geographical Perspectives
PLA 1601H	Environmental Planning and Policy
JPG 1607H	Geography of Competition
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 1653H	Advanced Studio in Urban Design and Planning
PLA 1654H	Urban Design Research Methods
PLA 1655H	Urban Design and Development Controls
PLA 1656H	Land Use Planning: Principles and Practice

Degree and Diploma Programs by Graduate Unit

JPG 1660H	Regional Dynamics
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 1805H	Transnationalism, Diaspora, and Gender
JPG 1809H	Spaces of Work: Value, Identity, Agency, Justice
JPG 1810H	Globalization and Postmodernism
JPG 1812Y	Planning for Change: Community Development in Practice
JPG 1906H	Geographic Information Systems
JPG 1909H	Social Survey Methods
JPG 1914H	Geographic Information Systems Research Project
JPG 2150H	Advanced Seminars in Selected Topics
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 fulfil other course requirements for the degree.)

Urban Design Studies

Effective September 2015, admissions to the Master of Urban Design Studies have been suspended.

The Master of Urban Design Studies (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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Geography and Planning's additional admission requirements stated below.
- 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 a 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 can be completed on a full-time basis only.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-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 JPG 1713H	Urban Design: History Theory Criticism or Place, Design and Landscape
PLA 1652H	Introductory Studio in Urban Design and Planning (students without significant design workshop/studio experience must take PLA 1652H)
PLA 1654H	Urban Design Research Methods

Plus one half-course elective, or two half-course
electives if the student is exempted from PLA 1652H.

Second Session

PLA 1653Y	Advanced Studio in Urban Design and Planning
PLA 1655H	Urban Design and Development

Plus one half-course elective.

Electives

Elective courses may be chosen from the following:

JPG 1501H	The Political Economy of Cities
JPG 1510H	Recent Debates on Urban Form
JPG 1512H	Place, Politics, and the Urban
JPG 1554H	Transportation and Urban Form
JPG 1615H	Planning and the Social Economy
PLA 1651H	Planning and Real Estate Development
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

Degree and Diploma Programs by Graduate Unit

JPG 2150H	Advanced Seminars in Selected Topics
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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

Arain, Altaf - BE, MS, PhD
Archontitsis, Georgios - BSc, MSc, DScA
Bathelt, Harald - MA, PhD, CRC
Boland, Alana - BA, MA, PhD
Buliung, Ronald - MA, PhD
Caspersen, John - BA, 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 (**Associate Chair,
Program in Planning from Jan. 1, 2016**)
Dunn, James - AB, AM, PhD
Duval, Timothy - BSc, MSc, PhD
Farish, Matthew - BA, PhD
Finkelstein, Sarah - AB, MPH, PhD
Florida, Richard - BA, PhD
Friedmann, Harriet - AB, MA, PhD
Fulthorpe, Roberta - BSc, MSc, PhD
Gertler, Meric - AB, MCP, PhD
Gilbert, Emily - PhD
Goonewardena, Kanishka - BSc, MCP, PhD
Gough, William - BSc, MSc, PhD
Grant, Jill - BA, MA, MA, 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
Kepe, Thembela - MS, PhD
Klenk, Nicole - BS, MSc, PhD
Leslie, Deborah - BA, MA, PhD (**Associate Chair,
Graduate Geography**)
Lewis, Robert - BA, MA, PhD
MacDonald, Ken - BA, MA, PhD
Maclaren, Virginia - BA, MRP, MSc, PhD (**Chair and
Graduate Chair**)
Mahtani, Minelle - BA, PhD
Malcolm, Jay - BSc, MSc, PhD
McGregor, Deborah - BSc, MES, PhD
Miller, Eric - BASc, MASc, PhD
Miron, John - BA, MA, MSc, PhD

Degree and Diploma Programs by Graduate Unit

Mitchell, Carl - PhD
Mollett, Sharlene - BA, MES, DA
Prudham, Scott - BSc, BA, MA, PhD
Rankin, Katharine - BA, MA, PhD
Robinson, Vincent - BSc, MSc, PhD
Ruddick, Susan - PhD (**Associate Chair, Program in Planning, July 1 to Dec. 31, 2015**)
Siemiatycki, Matthew - BA, MSc, PhD
Silvey, Rachel - BA, MA, PhD
Simpson, Myrna - BS, DPhil
Singh, Neera - BSc, MF, PhD
Smith, C. Tattersall - BA, MS, PhD
Sorensen, Andre - BFA, MSc, PhD
Wakefield, Sarah - BA, MA, PhD
Walks, Alan - BA, MA, PhD
Wells, Mathew - BS, DPhil
Wilson, Kathleen - AB, AM, PhD

Tufts, Steven - PhD
Zhang, Jun - BS, MS, PhD
Zimmerman, Peter - BA, MES

Members Emeriti

Bourne, Larry - BA, MA, PhD
Britton, John - BA, MA, PhD
Bunce, Michael - BA, PhD
Davis, Anthony - BA, MA, PhD
Gad, Gunter - DPhil, PhD
Galloway, John - BA, MA, PhD
Greenwood, Brian - BSc, PhD
McQuillan, Aidan - DipEd, BA, MA, PhD
Munro, D Scott - BSc, MSc, PhD
Price, Anthony - BSc, MSc, PhD
Relph, Edward - BA, MPH, PhD
Savan, Beth - BSc, PhD
Whitney, Joseph - BA, PhD

Associate Members

Bedford, Paul - BA, MSc
Boyes, Donald - BS, MA, PhD
Brail, Shauna - BA, MA, PhD
Breznitz, Shiri - BA, MA, PhD
Brown, Laura - BSc, MSc, PhD
Buckley, Michelle - BES, MES, PhD
Campsie, Philippa - BA, MSc
Carter, Angela - BA, MA, PhD
Farber, Steven - BA, MA, PhD
Farrow, John - MBA
Georgis, Dina - PhD
Kipfer, Stefan - BA, MES, PhD
Kumar, Kundan - BSc, MF, PhD
Lehnher, Igor - BSc, PhD
Leydon, Joseph - BA, MA, PhD
Makuch, Stanley - LLB, BA, LLM
Markovich, Julia - BA, MRP, PhD
Martin, Adam - BA, MF, PhD
Murck, Barbara - AB, PhD
Noland, Thomas L. - BScF, MScF, PhD
Poland, Blake - BA, PhD
Roberts, David - DA
Tarasick, David - BSc, MSc, PhD
Teelucksingh, Cheryl - BA, MA, PhD

Germanic Languages and Literatures

Faculty Affiliation

Arts and Science

Degree Programs

Germanic Languages and Literatures

MA

Fields:

German Literature, Culture and Theory
Yiddish Studies

German Literature, Culture and Theory

PhD

Field:

German Literature, Culture and Theory

Collaborative Programs

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

1. **Book History and Print Culture**
 - Germanic Languages and Literatures, MA
 - German Literature, Culture and Theory, PhD
2. **Diaspora and Transnational Studies**
 - Germanic Languages and Literatures, MA
 - German Literature, Culture and Theory, PhD
3. **Jewish Studies**
 - Germanic Languages and Literatures, MA
 - German Literature, Culture and Theory, PhD
4. **Women and Gender Studies**
 - Germanic Languages and Literatures, MA
 - German Literature, Culture and Theory, 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, Yiddish studies, medieval studies, travel literature, as well as post-colonial, 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

Germanic Languages and Literatures

Master of Arts

The MA degree in Germanic Languages and Literatures is offered in two fields:

- German Literature, Culture and Theory
- Yiddish Studies

Field: German Literature, Culture and Theory

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Germanic Languages and Literatures' additional admission requirements stated below.
- Applicants to the one-year MA program in the field German Literature, Culture and Theory 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 should arrange for three supporting letters to be sent to the Associate Chair 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*. At least 1.5 FCEs of the additional 3.0 FCEs must carry a GER designator.
- The remaining course selection is made in consultation with the Associate Chair of Graduate Studies of the department and must be approved by the department.

Degree and Diploma Programs by Graduate Unit

- Pass a German language competence test at the beginning of the program. Only one attempt is permitted.

Program Length

2 sessions full-time (typical registration sequence: F/W);
5 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Field: Yiddish Studies

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Germanic Languages and Literatures' additional admission requirements stated below.
- Applicants to the one-year MA program in the field of Yiddish Studies must have completed an appropriate bachelor's degree from a recognized university that includes at least 2.0 full-course equivalents (FCEs) in Yiddish language and 2.0 FCEs in Yiddish literature and culture or another area of Jewish Studies, with an average grade of at least a B+.
- Applicants should arrange for three supporting letters to be sent to the Associate Chair 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*
 - CJS 1000H *Core Methods Seminar in Jewish Studies*
 - GER 1050H *Methods and Texts in Yiddish Studies*
 - GER 2050Y *Research Paper in Yiddish Studies*
 - The remaining elective courses (1.0 FCE) are selected from a course list approved by the department.
- Pass a Yiddish language competency test at the beginning of the program. Only one attempt is permitted.

Program Length

2 sessions full-time (typical registration sequence: F/W);
5 sessions part-time

Time Limit

3 years full-time;
6 years part-time

German Literature, Culture and Theory

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Germanic Languages and Literatures' additional admission requirements stated below.
- Admission to the PhD program requires either:
 - 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 to the department that they are capable of independent research in German at an advanced level.
- Applicants should arrange for three supporting letters to be sent to the Associate Chair 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 of Graduate Studies 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 Associate Chair of Graduate Studies of the department and must be approved by the department.
- Students must provide evidence of reading knowledge of French, or in exceptional circumstances, of another language approved by the department.
- Students must pass a qualifying examination with written and oral components in the second session of Year 2 of the PhD program (or Year 3 for students admitted directly with the BA). The qualifying examination has three components:
 - The proficiency exam is based on a student-created and committee-approved, comprehensive list of works.
 - The focus exam is based on a student-created and committee-approved list of works organized around a genre, topic, author, or theoretical issue.
 - The research field paper on an approved topic must be distinct from the focus exam topic and reference methodological/theoretical readings essential to gaining a deep understanding of the research area of the future thesis. It is completed during the Summer session following the first two portions of the qualifying examination.
- Students must pass a thesis field review and make an oral presentation of their thesis.
- Students must submit the doctoral thesis and complete the Final Oral Examination.
- 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 of Graduate Studies' conditions (see 13.1.3.8 Thesis section in Degree Regulations, Doctor of Philosophy).

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. The department should be consulted each session as to actual course offerings.

GER 1000H	German Studies Seminar: Culture, Theory, Text
GER 1050H	Methods and Texts in Yiddish Studies
GER 1051H	Yiddish for German Speakers
GER 1200H	Middle High German

Degree and Diploma Programs by Graduate Unit

GER 1220H	Medieval Arthurian Romance
GER 1400H	From Real to Virtual Shtetl: Jewish Culture in Russia, 1917–2010
GER 1470H	Goethe in Context
GER 1480H	Goethe's Faust
GER 1485H	Goethe's Novels
GER 1505H	Romanticism
GER 1530H	Heine and Critical Theory
GER 1540H	Revolutions
GER 1550H	Origins: Myths of Beginning in German Literature and Thought
GER 1661H	Modernism in Context
GER 1665H	Modernism and the Other
GER 1690H	Theatre in the Weimar Republic
GER 1710H	Weimar Cinema
GER 1722H	Kafka
GER 1730H	Travel Writing
GER 1735H	Transnational Literatures
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 1821H	Reading Course in Second Language Acquisition
GER 1830H	Topics in German Intellectual History
GER 1860H	Introduction to Critical Theory
GER 2000H,Y	Reading Course in Approved Field
GER 2050Y	Research Paper in Yiddish Studies
GER 3000H	Trends in German Literature
GER 6000H	Reading German for Graduate Students
JGC 1660H	Modernism and the Other
JGC 1750H	Modernity and Its Discontents
JGC 1850H	Derrida, the German, the Jew

Degree and Diploma Programs by Graduate Unit

JGC 1855H	Critical Theory in Context: The French-German Connection
JGF 1733H	Autobiographical Documentary: History, Alterity, and Performativity

Graduate Faculty

Full Members

Fenner, Angelica - BA, MA, PhD
Goetschel, Willi - PhD
Hager, Michael - MA, PhD
Noyes, John - BA, MA, PhD
Shternshis, Anna - MA, PhD
Soldovieri, Stefan - BA, MA, PhD
Stock, Markus - MA, PhD (**Chair and Graduate Chair**)
Zilcosky, John - BA, MA, MA, PhD

Members Emeriti

Dierick, Augustinus - BA, MA, PhD
Hempel, Wolfgang - PhD
Mayer, Hartwig - PhD, PhD
Saas, Christa - BA, MA, PhD
Seliger, Helfried - PhD
Wetzel, Heinz - DPhil

Associate Members

Bergen, Doris - MA, PhD
Jenkins, Jennifer - BA, MA, PhD
Kim, Hang-Sun - AB, MA, PhD
Lahusen, Thomas - MA, PhD
Retallack, James - BA, DPhil
Revermann, Martin - PhD
Weiser, Keith - PHM, MA, PhD
Wittmann, Rebecca - AB, MA, PhD

Global Affairs

Faculty Affiliation

Arts and Science

Degree Programs Offered

Global Affairs

MGA

Combined Degree Programs

Law, JD / MGA

Management, MBA / MGA

Collaborative Programs

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

1. **Asia-Pacific Studies**
 - Global Affairs, MGA
2. **Environmental Studies**
 - Global Affairs, MGA
3. **Ethnic and Pluralism Studies**
 - Global Affairs, 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.

Contact and Address

Web: www.munkschool.utoronto.ca/mga/

Email: mga@utoronto.ca

Telephone: (416) 946-8917

Fax: (416) 946-8915

Munk School of Global Affairs
University of Toronto
315 Bloor Street West

Degree and Diploma Programs by Graduate Unit

Toronto, Ontario M5S 0A7
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. Applicants must also satisfy the Munk School's additional admission requirements stated below.
- 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.

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 FCE core courses in Year 1 (eight half-course equivalents)
 - 0.5 FCE GLA 1007H *Global Internship* in the Summer session between Years 1 and 2
 - 1.0 FCE core courses in Year 2: GLA 2000H *Capstone Seminar* and GLA 1009H *Financial Management for Global Organizations*
 - additional 2.5 FCEs in Year 2 (five half courses) at the 2000 level from the Munk School of Global Affairs
- Students lacking a background in microeconomics are required to take GLA 1010H *Microeconomics for Global Affairs* in the first session of Year 1.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Course List

Year 1

Core Courses (Required)

GLA 1001H	Macro and 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

Degree and Diploma Programs by Graduate Unit

GLA 1011H	Global Innovation
GLA 1012H	Data and Analytics

Summer Course (Required)

GLA 1007H	Global Internship
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Background Courses (Required for Students Without a Microeconomics Background)

GLA 1010H	Microeconomics for Global Affairs
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Year 2

Core Courses (Required)

GLA 1009H	Financial Management for Global Organizations (not required for students in the Combined Degree Program: Management, MBA / MGA)
GLA 2000H	Capstone Seminar (CR/NCR)

Elective Courses (Subject to Change)

GLA 2001H	Global Capital Markets and Global Strategies
GLA 2002H	Development Policy and Change
GLA 2003H	Global Governance
GLA 2005H	Negotiating Internationally
GLA 2006H	The Global Political Economy of Finance and Investment
GLA 2009H	The Political Economy of Global Cities
GLA 2010H	Geopolitics of Cyberspace
GLA 2012H	The Global Political Economy of Trade
GLA 2013H	Topics in Global Violence
GLA 2014H	Economic Development Policy and Planning
GLA 2015H	Economic Competitiveness and Social Protection
GLA 2016H	Global Legal Strategy
GLA 2018H	Innovation and the City
GLA 2021H	Innovation, Institutions, Governments, and Growth
GLA 2022H	Global Institutions and Diplomacy
GLA 2025H	Global Affairs Lab
GLA 2026H	Global Affairs Lab II
GLA 2050H	Selected Topics in International Studies
GLA 2051H	Global Violence
GLA 2080H	Topics in Global Innovation I

GLA 2090H	Topics in Global Affairs I
GLA 2091H	Topics in Global Affairs II
GLA 2092H	Topics in Global Affairs III
GLA 2093H	Topics in Global Affairs IV
GLA 2095H	MGA Reading Course
GLA 2096H	Topics in Global Affairs V
GLA 2097H	Topics in Global Affairs VI
GLA 2098H	Topics in Global Affairs VII
GLA 2555H	Intensive Course in Innovation Policy I
GLA 2556H	Intensive Course in Innovation Policy II
GLA 2557H	Intensive Course in Innovation Policy III
GLA 2888H	MGA Research Paper
GLA 2999H	Global Problem Solving: Laboratory Opportunities (exclusion: GLA 2999Y)
JCR 1000Y	An Interdisciplinary Approach to Addressing Global Challenges
JMG 2020H	Big Data

Combined Degree Program: Law, Juris Doctor / Master of Global Affairs

For full details, see the Law, Juris Doctor / Master of Global Affairs entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Management, Master of Business Administration / Master of Global Affairs

For full details, see the Management, Master of Business Administration / Master of Global Affairs entry in the Combined Degree Programs section of this calendar.

Graduate Faculty

Full Members

Bernstein, Steven - PhD
 Bertoldi, Nancy - BA, MA, PhD
 Breznitz, Dan - BA, PhD
 Brunnée, Jutta - LLM, SJD
 Cameron, David - PhD, , FRSC
 Deibert, Ronald - BA, MA, PhD
 Durant, Gilles - BSc, MSc, MA, PhD
 Friedmann, Harriet - AB, MA, PhD
 Goh, M Cynthia - PhD
 Hoffmann, Matthew - BSc, PhD
 Kirton, John - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Kohler, Jillian - BA, MA, PhD
Kopstein, Jeffrey - BA, MA, PhD
Levi, Ron - BCL, LLB, LLM, SJD (*Director, MGA Program*)
McGahan, Anita - BA, MA, MBA, PhD
Mundy, Karen - BA, MA, PhD
Nevitte, Neil - BA, MA, PhD, FRSC
Orbinski, James - BSc, MA, MD
Pauly, Louis - BA, MA, MSc, MSc, PhD, CRC, FRSC
Polanyi, John - MSc, PhD, DSc, FRSC, FRS
Pruessen, Ronald - BA, MA, PhD
Reitz, Jeffrey - PhD
Shachar, Ayelet - LLB, BA, LLM, SJD
Stein, Janice - BA, MA, PhD, OC, FRSC
Toope, Stephen - BCL, LLB, PhD
Vipond, Robert - BA, MA, AM, PhD
Wark, Wesley - BA, BA, MA, PhD
Wolfe, David - BA, MA, PhD
Wong, Joseph - BA, MA, PhD, CRC

Members Emeriti

Bird, Richard - BA, MA, PhD

Associate Members

Breznitz, Shiri - BA, MA, PhD
Hejazi, Walid - BA, MA, PhD
Manger, Mark - DrRerPol
Ornston, Darius - BA, MA, PhD

Health Policy, Management and Evaluation

Faculty Affiliation

Public Health

Degree Programs

Health Policy, Management and Evaluation

MSc	<i>Concentrations:</i> Clinical Epidemiology and Health Care Research Health Services Research Health Technology Assessment and Management Quality Improvement and Patient Safety System Leadership and Innovation
PhD	<i>Concentrations:</i> Clinical Epidemiology and Health Care Research Health Services Research

Health Administration

MHSc

Health Informatics

MHI

Combined Degree Programs

Health Administration, MHSc / MN
 Health Administration, MHSc / MSW

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. Global Health**
 - Health Policy, Management and Evaluation, PhD
- 4. Health Care, Technology, and Place**
 - Health Policy, Management and Evaluation, PhD
- 5. Health Services and Policy Research**

- Health Policy, Management and Evaluation, MSc, PhD
- 6. Musculoskeletal Sciences**
 - Health Policy, Management and Evaluation, MSc, PhD
 - 7. Public Health Policy**
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
 - 8. Resuscitation Sciences**
 - Health Policy, Management and Evaluation, MSc, PhD
 - 9. Women and Gender Studies**
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
 - 10. Women's Health**
 - Health Policy, Management and Evaluation, MSc, PhD

Overview

The Institute of Health Policy, Management and Evaluation (IHPME) 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

IHPME also offers two **combined degree 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 IHPME programs is available on the website. Please note the **application deadlines**.

November 15

MSc in Health Policy, Management and Evaluation concentrations: Clinical Epidemiology and Health Care Research; Health Services Research; Quality Improvement and Patient Safety

PhD in Health Policy, Management and Evaluation concentrations: Clinical Epidemiology and Health Care Research; Health Services Research

January 15

Master of Health Informatics

MSc in Health Policy, Management and Evaluation
concentration: System Leadership and Innovation

February 1

MHSc in Health Administration

MHSc in Health Administration / MSW combined degree
program

MHSc in Health Administration / MN combined degree
program

April 1 (every other year)

MSc in Health Policy, Management and Evaluation
concentration: Health Technology Assessment and
Management

Contact and Address

Institute of Health Policy, Management and Evaluation

Web: www.ihpme.utoronto.ca

Email: ihpme@utoronto.ca

Telephone: (416) 978-4326

Fax: (416) 978-7350

Institute of Health Policy, Management and Evaluation
University of Toronto
4th Floor, 155 College Street
Toronto, Ontario M5T 3M6
Canada

Degree Programs

Health Policy, Management and Evaluation

Master of Science

- The Health Policy, Management and Evaluation graduate program offers four concentrations leading to the Master of Science: Clinical Epidemiology and Health Care Research; Health Services Research; Health Technology Assessment and Management; and Quality Improvement and Patient Safety.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IHPME's additional admission requirements stated below.
- Applicants 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

Degree and Diploma Programs by Graduate Unit

university with a B+ average in the final two years is required.

- Applicants to the Systems Leadership and Innovation concentration must be active as a trainee within the Post-Graduate Medical Education (PGME) program, or be registered in the Undergraduate Medical Education (UME) program at the University of Toronto, Faculty of Medicine. UME students who are accepted must register part-time; PGME students who are accepted may register full-time or part-time.

Program Requirements

Concentration: 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

Concentration: 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.

Concentration: Health Technology Assessment and Management

- 3.0 FCEs (HAD 5308H, HAD 5730H, HAD 5760H, HAD 5763H, and either HAD 5727H or HAD 5771, and either HAD 5301H or 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.

Degree and Diploma Programs by Graduate Unit

Concentration: Quality Improvement and Patient Safety

Coursework-Only MSc

- Completion of 5.0 FCEs as follows:
 - 3.0 required FCEs (HAD 3010H, HAD 3020H, HAD 3030H, HAD 3050H, HAD 3060H, HAD 3070H)
 - 1.0 required FCE in a research project practicum (HAD 3040Y)
 - 1.0 FCE optional

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Concentration: System Leadership and Innovation

Coursework-Only MSc

- Completion of 5.0 FCEs as follows:
 - 2.0 required FCEs (HAD 2001H, HAD 2002H, HAD 2003H, HAD 2004H)
 - 1.0 required practicum FCE (HAD 2010H, HAD 2020H)
 - 2.0 elective FCEs, of which a maximum 1.0 FCE can be a practicum; please consult with the department about electives
 - students begin this concentration in the Summer session.

Program Length

3 sessions full-time (typical registration sequence: S/F/W);

7 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. Applicants must also satisfy the IHPME's additional admission requirements stated below.
- 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 concentration 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 IHPME 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 concentration 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.

Program Length

4 years full-time; 5 years direct-entry; 5 to 6 years flexible-time

Time Limit

6 years full-time; 7 years direct-entry; 8 years flexible-time

Course List

Concentration: Clinical Epidemiology and Health Care Research

Compulsory Courses

HAD 5301H	Introduction to Clinical Epidemiology and Health Care Research
HAD 5307H	Introduction to Applied Biostatistics
HAD 5311H ⁰	Comprehensive/Synthesis (one year)
HAD 5316H	Biostatistics II: Advanced Techniques in Applied Regression Methods

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

Recommended Courses

HAD 5302H	Measurement in Clinical Research
HAD 5303H	Controlled Clinical Trials
HAD 5304H	Clinical Decision Making and Cost Effectiveness
HAD 5305H	Evidence-Based Guidelines
HAD 5306H	Introduction to Health Services Research and the Use of Health Administrative Data
HAD 5308H	Evidence Synthesis: Systematic Reviews and Meta-Analysis
HAD 5309H	Observational Studies: Theory, Design, and Methods
HAD 5310H	Pragmatic Issues in Conduct of Controlled Trials
HAD 5730H	Economic Evaluation Methods for Health Service Research
HAD 5760H	Advanced Health Economics and Policy Analysis
JNH 5000H	Measurement of Patients' Preferences in Health Care Decision Making

Elective Courses

HAD 5312H	Decision Modelling for Clinical Policy and Economic Evaluation
HAD 5313H	Advanced Design and Analysis Issues in Clinical Trials
HAD 5314H	Applied Bayesian Methods in Clinical Epidemiology and Health Care Research
HAD 5315H	Advanced Topics in Measurement

Degree and Diploma Programs by Graduate Unit

HAD 5316H	Biostatistics II: Advanced Techniques in Applied Regression Methods (prerequisite: HAD5307H Introduction to Applied Biostatistics or CHL 5201H Introductory Biostatistics for Students in Biological Sciences I)
HAD 6360H ⁰	Required Research Practicum in Clinical Epidemiology (Credit/No Credit)
HAD 6361H ⁰	Optional Research Practicum in Clinical Epidemiology (Credit/No Credit)
HAD 7002H	Reading Course

Other IHPME courses or extradepartmental courses may be considered as elective courses and are subject to approval of the institute.

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

Concentration: Health Services Research

HAD 3010H	Fundamentals of Improvement Science
HAD 3020H	Quality Improvement Methods
HAD 3030H	Concepts and Strategies in Patient Safety
HAD 3040Y ⁺	Project Practicum
HAD 3050H	Leading and Managing Change
HAD 3060H	Quality Improvement in Health Systems
HAD 3070H	Legal and Regulatory Environment and Risk Management
HAD 3080H	External Practicum
HAD 3090H	The Application of Lean in Healthcare
HAD 5011H	Canada's Health Care System and Health Policy (Doctoral Stream)
HAD 5021H	Canada's Health System and Health Policy Part 2 (Doctoral Stream)
HAD 5726H	Design and Evaluation in eHealth Innovation and Information
HAD 5727H	Knowledge Transfer and Exchange
HAD 5728H	Performance Measurement in Health Care: Theory and Application
HAD 5729H	Theoretical, Conceptual and Methodological Issues in Knowledge Translation
HAD 5730H	Economic Evaluation Methods for Health Service Research

Degree and Diploma Programs by Graduate Unit

HAD 5734H	Organizational Learning and Knowledge Transfer
HAD 5737H	Tools for Implementation of Best Evidence
HAD 5738H	Advanced Methods in Economic Evaluation
HAD 5739H	Ideas and Arguments in Health Care Policy
HAD 5740H	Intermediate-Level Qualitative Research for Health Services and Policy Research
HAD 5742H	Mixed Methods for Health Services Research
HAD 5743H	Evaluation Design for Complex Interventions
HAD 5744H	Introduction to Health Econometrics
HAD 5745H	Where Health Economics Hits the Road: Practical Applications of Economics to Real Health Care Problems
HAD 5755Y	Health Economics Graduate Seminar Series (CR/NCR)
HAD 5760H	Advanced Health Economics and Policy Analysis
HAD 5763H	Advanced Methods in Health Services Research
HAD 5768H	International Perspectives on Health Services Management
HAD 5771H	Resource Allocation Ethics
HAD 5772H	Intermediate Statistics for Health Services Researchers
HAD 5773H	Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector
HAD 5776H	Issues in Qualitative Health Services Research Methodologies and Methods
HAD 5780H	Program Planning and Evaluation for Health Services and Policy Research
HAD 6750H	Advanced Health Economics and Policy Analysis II
HAD 6760H	Introduction to Health Services Research Theory and Methods
HAD 6761H	Health Services Outcomes and Evaluation Comprehensive Course
HAD 6762H	Health Services Organization and Management Comprehensive Course
HAD 6763H	Health Policy Comprehensive Course

HAD 6764H	eHealth Innovation and Health Information Management Comprehensive Course
HAD 6770H	Applying Health Services Research Methods (prerequisite: HAD 6760H Introduction to Health Services Research Theory and Methods)
JNH 5001H	Health Care Settings, Site, and Human Well Being
JNH 5003H	Home and Community Care Knowledge Translation
HAD 7001H	Reading Course

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

Concentration: Quality Improvement and Patient Safety

HAD 4000H	Reading Course—QIPS
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Concentration: System Leadership and Innovation

HAD 2001H	Strategic Vision and Planning for Health System Change
HAD 2002H	Research Methods for Evaluating Health System Innovation
HAD 2003H	Leading and Responding to Health Policy and System Change
HAD 2004H	Leadership, Motivation, and Partnering
HAD 2010H	System Leadership and Innovation Practicum (Individual)
HAD 2020H	System Leadership and Innovation Practicum (Team)

Cross-Listed Courses

These courses are limited to certain program students in Health Policy, Management and Evaluation. Please check the website.

BME 1456H	Changing Health Care Technologies, People, and Places
HSR 1000H	Health Services Research Practicum
HSR 1001H	Introduction to Qualitative Methods for Health Services and Policy Research
HSR 1002H	Health Services and Policy Research Summer Institute
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
JHM 1000H	Issue Analysis in Interdisciplinary, International Health Research
LAW 465H	Conflicts of Interest in Medicine: Evidence, Public Policy, and the Law
LAW 404H	Health System Law and Policy

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IHPME's additional admission requirements stated below.
- 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.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Course List

Required Courses

All courses are offered in modular format unless marked otherwise.

HAD 5010H	Canada's Health System and Health Policy: Part I
HAD 5020H	Canada's Health System and Health Policy: Part II

Degree and Diploma Programs by Graduate Unit

HAD 5711H	Theory and Practice of Strategic Planning and Management in Health Services Organization
HAD 5713H	Introduction to Health Information Systems
HAD 5721H	Strategic Management of Quality and Organizational Behaviour in Health Services Organizations
HAD 5723H	Health Services Accounting
HAD 5724H	Quantitative Methods for Health Services Management and Policy
HAD 5725H	Health Economics
HAD 5731H	Translating Leadership Into Practice
HAD 5733H	Health Services Finance
HAD 5741H	Health Law
HAD 5761H	Introduction to eHealth: Informatics, Innovations, and Information Systems
HAD 5767H	Health Services Marketing
HAD 5769H	Human Resources Management in the Health Field
HAD 5770H	Program Planning and Evaluation
HAD 6010Y ⁺	Required MHS Sc Practicum (Credit/No Credit)
HAD 6011H ⁺	Optional Practicum Extension (Credit/No Credit)

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

Elective Courses

Non-modular electives may be taken subject to program approval.

HAD 5735H	Commercialization of Health Research
HAD 5736H	Operations Research Tools for Quantitative Health Care Decision Making
HAD 5765H	Case Studies in Health Policy
HAD 5774H	Comparative Health Care Systems
HAD 5775H	Competition, Cooperation, and Strategy in Health Care

Combined Degree Program: Health Administration, Master of Health Science / Master of Nursing

For full details, please see the Health Administration, Master of Health Science / Master of Nursing entry

Degree and Diploma Programs by Graduate Unit

in the Combined Degree Programs section of this calendar.

Combined Degree Program: Health Administration, Master of Health Science / Master of Social Work Program

For full details, please see the Health Administration, Master of Health Science / Master of Social Work entry in the Combined Degree Programs section of this calendar.

Health Informatics

Master of Health Informatics

The Master of Health Informatics is a professional program which provides graduates with expertise in clinical information and communication technologies (ICTs) required to lead organizational and health system change. The MHI degree program prepares health informaticians to bridge the gaps between clinicians and ICT specialists.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IHPME's additional admission requirements stated below.
- 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 specialty 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 FCE), 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.

Program Length

4 sessions full-time (typical registration sequence: F/W/ S/F)

Time Limit

3 years full-time

Course List

Required Courses

MHI 1001H	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 (Strategic Frameworks for Solution Architecture)
MHI 2007H	Quantitative Skills in Health Informatics
MHI 2008H	Project Management for Health Informatics
MHI 2009H	Evaluation Methods for Health Informatics
MHI 2011H	Performance Measurements in Health Care: Theory and Application
HAD 5010H	Canada's Health System and Health Policy I
HAD 5722H	Knowledge Transfer in the Age of the Web

Elective Courses

Students are encouraged to select an elective that allows them to focus on their individual areas of interest in health informatics. For this reason, the MHI 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 and the IHPME Chair.

MHI 2010H	Extended Health Informatics Practicum
MHI 3000H	Independent Reading for Health Informatics

Graduate Faculty

Full Members

Alibhai, Shabbir - MD
 Anderson, Geoff - MD
 Austin, Peter - PhD
 Baker, G. Ross - AB, MA, PhD
 Barnsley, Janet M - BSc, MSc, PhD
 Baxter, Nancy - DrMed, PhD
 Bayoumi, Ahmed - MD
 Bell, Chaim - MD
 Berta, Whitney - BS, MBA, PhD
 Bombardier, Claire - MA, MD
 Brown, Adalsteinn - AB, PhD (**Director**)
 Cassidy, David - BSc, MSc, PhD
 Cheung, Angela - BA, MD, PhD
 Cockerill, Rhonda W - BA, MA, PhD (**Coordinator of Graduate Studies**)

Cohen, Marsha - BSc, BSc, MSc, MHSc, MD
 Coyte, Peter C - BA, MA, PhD
 Davis, Aileen - BSc(PT), MSc, PhD
 Davis, David - BA, MD
 Deber, Raisa - BS, MS, PhD
 Dell, Sharon - MD
 Detsky, Allan - BS, MD, PhD
 Donnelly, Peter - MBA, MPH, MBCHB, MD
 Donnelly, Sandra - BSc, MSc, MDCM
 Doria, Andrea - MSc, MD, PhD
 Etchells, Edward - MSc, MD
 Eysenbach, Gunther - MD
 Feldman, Brian - MD
 Ferguson, Niall - MSc, MD
 Flood, Colleen - LLB, LLM, SJD
 Fremes, Stephen - BA, MSc, MD
 Glazier, Richard - MPH, MD
 Goering, Paula - BSc, MSc, PhD
 Golden, Brian - BS, MS, PhD
 Griffiths, Anne - MD
 Grunfeld, Eva - MD, PhD
 Hannah, Mary - BSc, MDCM, MS
 Hawker, Gillian - MD, MD
 Henry, David - MD
 Hoch, Jeffrey - BA, MA, PhD
 Holness, D Linn - MHSc, MD
 Jadad, Alejandro - MD, DPhil
 Jaglal, Susan - BSc, MSc, PhD
 Krahn, Murray - BA, MSc, MD
 Kreiger, Nancy - BA, MPH, PhD
 Laporte, Audrey - BA, MA, PhD
 Laupacis, Andreas - MD
 Lemieux-Charles, Louise - PhD (**Chair and Graduate Chair**)
 Llewellyn-Thomas, Hilary - BSN, MSc, PhD
 Logan, Alexander - MD
 Macarthur, Colin - BS, MSc, MBCHB, PhD
 Maclean, Heather - BSc, EdD
 Mamdani, Muhammad - DP

McCrindle, Brian - MD
 McGeer, Allison - BSc, MSc, MD
 McLeod, Robin - BSc, LMCC, MD
 Miller, Fiona - BIS, MA, DPhil
 Morrison, Laurie - BSc
 Myers, Ted - BA, MSW, MSc, PhD
 Naglie, I. Gary - BSc, MDCM
 Naylor, C. David - MD, PhD
 O'Brien-Pallas, Linda-Lee - BSN, MSN, DPhil
 Offringa (do not use), Martin - MD
 Ohlsson, Arne - MD, MD
 Pritchard, Kathleen - BA, MD
 Pullenayegum, Eleanor - BM, PhD
 Rabeneck, Linda - BSc, MPH, MD
 Redelmeier, Donald - MS, MD
 Reeves, Scott - BSc, MSc
 Robinson, Lawrence - BA, MD
 Rochon, Paula - MD
 Rubinfeld, Gordon - MSc, MD
 Sale, Joanna
 Sass-Kortsak, Andrea - BSc, MHSc, PhD
 Shachak, Aviv - DPhil
 Snead III, Carter - BS, MD, MD
 Stukel, Therese - BS, PhD
 Sung, Lillian - MD
 Talbot, Yves - BA, MD
 Tannock, Ian - MD, PhD
 To, Teresa - BSc, MSc, PhD
 Tomlinson, George - BSc, MSc, PhD
 Tu, Jack Ven - MD, PhD
 Tu, Karen - BSc, MD
 Ungar, Wendy - BA, MSc, PhD
 Upshur, Ross Edward - BA, MA, MSc, MD
 Urbach, David - MSc, MD
 Walmsley, Sharon - BSc, MSc, MD
 Wasylenki, Donald - BA, MD
 Webster, Fiona - BA, MA, PhD
 Williams, Paul - PhD
 Wodchis, Walter - MA, PhD
 Wright, James - BA, LMCC, MPH, MD
 Young, Lionel Trevor - MSc, MD, PhD
 Zwarenstein, Merrick - MPH, MMed, MBCHB

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

Allen, Upton - MSc, MSc, MBBS
 Alter, David - MD
 Ammendolia, Carlo - MedScD
 Andrade, Ada - MN
 Angle, Pamela - MD
 Baumann, Andrea - BN, MN, PhD
 Bayley, Mark - MD
 Bean, Sally - JD

Degree and Diploma Programs by Graduate Unit

Benseler, Susanne - MD
 Beyene, Joseph - BSc, MSc, PhD
 Bhatia, Sacha - BSc, MBA, MDCM
 Bird-Gayson, Twylla - MSW
 Birken, Catherine - MD
 Bohnen, John - LMCC, MD
 Bombard, Yvonne - PhD
 Boon, Heather - PhD
 Booth, Gillian - MD
 Booth, Richard - MSN
 Bronskill, Susan - MSc
 Browne, Janis Lynne - BSc, MD
 Brydges, Ryan - BSc, MSc, PhD
 Chan, Benjamin - BSc, MPH, MPA, MD
 Chan, Christopher - MD
 Charach, Alice - MD
 Coburn, Natalie - BSc, MSc, DrMed
 Coffey, Maitreya - MD
 Corbin, Ruth Mw - BSc, MSc, PhD
 Cuthbertson, Brian - MBCHB, PhD
 Daneman, Nick - BA, MD
 Dewa, Carolyn - BA, MPH, PhD
 Dhalla, Irfan - BAA, MSc, MD
 Dick, Paul - MDCM
 Dobrow, Mark - PhD
 Easson, Alexandra - MSc, MD
 Fam, Mark - MHSA
 Fehlings, Darcy - MD
 Feig, Denice - MD
 Fernandes, Olavo - BScPhm, DP
 Flannery, John - MD
 Follett-Rowe, Margot - MS
 Fowler, Robert - MDCM
 Gagliardi, Anna - BSc, BE, MSc, MLS, PhD
 Gamble, Paul - BSc, BA, MHSA
 Gibson, Jennifer - PhD
 Ginzburg, Amir - BSc, MD
 Glouberman, Sholom - PhD
 Gomes, Tara - BSc, MHSc
 Gruneir, Andrea - DPH
 Guerriere, Denise - PhD
 Gunz, Hugh - DPhil, PhD
 Gupta, Sumit - MD
 Guttman, Mark - MD
 Halperin, Ilana - BSc, MSc, MD
 Hayeems, Robin - DPH
 Hodgson, David - MD
 Howard, Andrew - BA, CPSO, MSc, LMCC, MD
 Hux, Janet - MD
 Hwang, Stephen - MPH, MD
 Isaranuwatchai, Wanrudee - BSc, PhD
 Ivers, Noah - MD
 Jackevicius, Cynthia - BS, MSc
 Jackson, Timothy - BSc, MPH, DrMed
 Jamal, Abida - MD, PhD
 Jassal, Sarbjit Vanita - MD
 Johnson, Sindhu - BMedSc, MD, PhD
 Juurlink, David - BSc, MD, PhD
 Kapral, Moira - MD

Karanicolas, Paul - BSc, DrMed, PhD
 Karkouti, Keyvan - MD
 Kennedy, Erin - CPSO, MD, PhD
 Khan, Kamran - MPH, MD
 Kirst, Maritt - BA, MA, PhD
 Klein, David - MD
 Ko, Dennis - MD
 Kreder, Hans - MPH, MD
 Krzyzanowska, Monika - MPH, MD
 Kulkarni, Abhaya - BSc, MD, PhD
 Kulkarni, Girish - MD
 Kurdyak, Paul - BSc, MSc, MD
 Lehoux, Pascale - BS, MASc, PhD
 Leis, Jerome - BSc, MSc, MD
 Lo, Alex - BSc, MD
 Loblaw, Andrew - MD
 Lok, Charmaine - MSc, MD
 Loutfy, Mona - MPH, MD
 Macfarlane, P Dianne - BA
 MacIntosh-Murray, Anu - BA, LLB, MPH
 Maguire, Jonathon - BSc, MSc, MSc, MD
 Mahant, Sanjay - MD
 Mahomed, Nizar - MPH, MD, ScD
 Malach, Faith - MHSA
 Martin, Danielle - BSc, DrMed
 McIntyre, Kieran - BSc, MD
 Mitchell, Leslie - MSc
 Mnyusiwalla, Latifa - MPH
 Moore, Aideen - MBCHB
 Moore, Lynn - MHSA
 Mukerji, Geetha - BSc, MD
 Murphy, Kellie - MD
 Murray, Michael A - BA, MA, PhD
 Naimark, David - MD
 Nam, Robert - MSc, MD
 Nathan, Paul - BA, MSc, MD
 Nauenberg, Eric - AB, MPH, PhD
 Nestman, Lawrence - BComm, MHSA
 O'Brien, Kelly - BSc(PT), BS, PhD
 O'Connor, Paul - MD
 Oliver, Matthew - MD
 Pain, Clare - BSc, MSc, MD
 Palda, Valerie - MD
 Paprica, Alison - DSc
 Parker, Joseph - BCom
 Parshuram, Christopher - MBCHB
 Paszat, Lawrence - MS, MD
 Perkins, Bruce - MPH, MD
 Perl, Jeffrey - BSc, SM, MD
 Pron, Gaylene - BSc, MSc, PhD
 Quan, May Lynn - BSc, MSc, LMCC, MD
 Rachlis, Michael - MSc, MD
 Rakovitch, Eileen - MD
 Rath, Darlyne - MSc
 Ray, Joel - MSc, MD
 Reeleder, David John - PhD
 Ringash, Jolie - MSc, MD
 Sanmartin, Claudia - PhD
 Saposnik, Gustavo - MSc, MD

Degree and Diploma Programs by Graduate Unit

Sawka, Carol - MD
Scales, Damon - MD
Schull, Michael - MD
Shah, Prakeshkumar - MD
Sharkey, Shirlee - BA, BSN, MHSc
Silver, Michelle - BA, BS, MA, PhD
Singer, Lianne - MD
Sinha, Samir Kumar - BSc, MSc, MD, BScMed, PhD
Smith, Tina - BSc, MHSc
Soong, Christine - BSc, MD
Stanbrook, Matthew - MSc, MD
Steele, Leah - BPhil, DrMed
Steinhart, A. Hillary - MD
Stelmacovich, Kim - MHSc
Sullivan, Terrence - BS, MA, PhD
Sutradhar, Rinku - BSc, MMath, PhD
Szold, John - MBA
Tan, Darrell - BSc, MD, PhD
Teare, Gary - MSc, DrMedVet, PhD
Tepper, Joshua - BA, MPH, DrMed
Tinckam, Kathryn - BSc, MMed, MD
Tinmouth, Jill - MD, PhD
Tirel, Clarys - MHSA
Tombak, Mihkel - BS, MBA, AM, PhD
Tran, Dat - MD
Velji, Karima - BScN, MSN, PhD
Vigod, Simone - MD
Wales, Paul - BSc, MSc, MD
Wei, Alice - BSc, MSc, MSc, MD
Weizman, Adam - BSc, BSc, MSc, MD
Whyte, Hilary - MBCHB
Wiljer, David - PhD
Willison, Donald - BScPhm, MSc, ScD, DSc
Windrim, Rory - MB
Wobeser, Wendy - MSc, DrMed
Wong, Brian - MD
Wong, Rebecca - MBCHB
Wright, Frances - BSc, LMCC, MEd, MD
Yeung, Latifa - MD
Young, Nancy - BSc(PT), MSc
Zhong, Toni - BCh, DrMed

History

Faculty Affiliation

Arts and Science

Degree Programs

History

MA and PhD

Fields by Chronology or Geography:

African History
American History
Atlantic World History
British and Irish History
Canadian History
East Asian History
European History
Latin American and Caribbean History
Medieval History
Mediterranean and Middle Eastern History
Russian History
South Asian History
Southeast Asian History

Fields by Theme:

Cultural and Intellectual History
Food History
History of Conflict, Violence, and Genocide
History of Economy, Technology, and Society
History of Empire, Colonialism, and Indigeneity
History of Gender, Sex, and Sexualities
History of Medicine
History of Migration/Diaspora
History of Religion and Society
History of State, Politics, and Law
International Relations
Social History

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. There are opportunities to study and research several geographic, chronological, and thematic areas of history. Visit the departmental website for descriptions of specific fields.

The University of Toronto also offers rich resources outside the department to support the study of history. The Robarts Research Library, unrivalled 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 medieval 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

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Telephone: (416) 978-3369
Fax: 416-978-6647

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

History's additional admission requirements stated below.

- 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 proficiency 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 (TWE)
 - 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

- 3.5 full-course equivalents (FCEs)—of which 0.5 must be either HIS 1997H or HIS 1201H—including the MA essay which is worth 1.0 FCEs. Normally, up to 1.0 FCE may be taken outside the Department of History with the approval of the Associate Chair, Graduate.
- Full-time MA students are expected to complete all degree requirements within 12 months of entering the program.

Coursework and Thesis

- 2.0 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).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 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. Applicants must also satisfy the Department of History's additional admission requirements stated below.
- 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 proficiency 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 (TWE)
 - Internet-based TOEFL exam: 100/120 with 22/30 on the writing and speaking sections

Degree and Diploma Programs by Graduate Unit

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, 0.5 of which must be either HIS 1997H or HIS 1201H. 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**: All PhD students in any geographic, chronological, or thematic field must fulfil requirements in two languages other than English relevant to their field and research. Students whose research entails exclusively English language sources may fulfil one language other than English with written permission of the supervisor and Associate Chair, Graduate.
- Students doing research in the medieval field must fulfil requirements in medieval Latin and in French and German. (Note: A modern language more appropriate to the student's research may be substituted for French or German. PhD students in Medieval History must demonstrate advanced proficiency in Latin. They do so by passing the Latin exams set by the Centre for Medieval Studies (CMS). The CMS MA Latin exam must be passed before the comprehensive examination, and the PhD-level exam before the dissertation is defended.)
- Students may carry forward language requirements fulfilled at the MA level at the University of Toronto. All language requirements are subject to approval

by the student's supervisor and the Associate Chair, Graduate.

- **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 seven years of first enrolment in the direct-entry PhD).

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 1001H	Topics in History
HIS 1004H	History and Biopolitics
HIS 1006H	Historiography From Below: Comparative and Critical Perspectives
HIS 1007H	Theories, Histories, Imaginaries: Themes in Technoscience
HIS 1009H	Empire and Governmentality: Economy, Culture, and Liberal Governance
HIS 1020H	Cultural Theory/Cultural History
HIS 1023H	Translation, Time, History
HIS 1026H	Modernity and Its Others: History and Postcolonial (joint graduate/undergraduate)
HIS 1031H	Images as History: Photography, Historical Method, and Conceptualizing Visuality
HIS 1037H	Populism in American Film and Media
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 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 1116H	Canada: Foundations to 1867
HIS 1117H	Canada: Colonialism/Postcolonialism
HIS 1118H	Canada By Treaty: Alliances, Title Transfers, and Land Claims
HIS 1128H	Canada and Transnational History
HIS 1142Y	Canadian Foreign Relations, 1940–2003 (joint graduate/undergraduate)
HIS 1168H	History of the Sex Trade in Canadian and Comparative Contexts
HIS 1200H	Readings in European Intellectual History
HIS 1201H	The Materials of Medieval History (Credit/No Credit)
HIS 1213H	Medieval Institutes of Perfection (joint graduate/undergraduate)
HIS 1215H	Social Change in Medieval England, 1154–1279
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 1231H	Topics in French History
HIS 1232H	European Colonialism, 1870–1970: A Comparative History
HIS 1233H	Colonial Urbanism in the Mediterranean World, 1800–1950
HIS 1234H	Readings in Early Modern French History
HIS 1235H	History in/of the Mediterranean: From Braudel to Post-Colonialism
HIS 1236H	French Colonial History: 1830–1962
HIS 1237H	France: 1870–1968

Degree and Diploma Programs by Graduate Unit

HIS 1245H	Gender, Men and Women in Europe 1500–1900
HIS 1247H	Ideas of Race in Europe and the Atlantic World
HIS 1264H	Jewish Identity
HIS 1265H	Atrocities and Memory in Postwar Europe and North America
HIS 1268H	The Holocaust and World War II
HIS 1269H	The Social History of Medicine in the Nineteenth and Twentieth Centuries (joint graduate/undergraduate)
HIS 1270H	History of Psychiatry and Psychiatric Illness (joint graduate/undergraduate)
HIS 1271H	Modern Political Trials
HIS 1272H	Topics in Twentieth-Century European History
HIS 1275H	Imperial Germany, 1871–1918
HIS 1276H	Nations and Nationalism in Global Perspective
HIS 1277H	Topics in Jewish History
HIS 1278H	Topics in Twentieth-Century German History
HIS 1279H	World War II in East Central Europe (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 1286H	Categories of Imperial Russian Social History
HIS 1287H	Polish Jews Since the Partitions of Poland (joint graduate/undergraduate)
HIS 1289H	The Cold War Through Its Archives
HIS 1290H	Topics in Imperial Russian History
HIS 1291H	Topics in Russian and Soviet Social History (joint graduate/undergraduate)
HIS 1293Y	Kievan Rus' (joint graduate/undergraduate)
HIS 1295H	Soviet History Seminar
HIS 1296H	Stalinism and After: Beyond Cold War History
HIS 1297H	National Survival in Eastern Europe
HIS 1300H	Empires and Nation-States in the Balkans Since 1800
HIS 1301H	History of Food and Drink

Degree and Diploma Programs by Graduate Unit

HIS 1411H	Theory and Practice in Early Modern British History
HIS 1419H	Science and Society in Britain, 1600–1800
HIS 1425H	British Social Realism and Cinema
HIS 1435H	Studies in Victorian Society
HIS 1440H	Irish Nationalism in Canada, 1858–1870 (joint graduate/undergraduate)
HIS 1510H	Readings in American History to 1877
HIS 1511H	History and Present-Day Policy Analysis
HIS 1519H	Thinking of Diversity: Historical Perspectives on American and Canadian Pluralisms
HIS 1522H	Topics in Twentieth-Century U.S. History: Transnational Commodity Culture
HIS 1524H	Topics in the History of Black America
HIS 1531H	American Political History Since 1877
HIS 1532H	American Foreign Policy in the Cold War
HIS 1533H	Gender and International Relations (joint graduate/undergraduate)
HIS 1538H	Reading in U.S. History
HIS 1539H	Film Comedy and Popular Culture
HIS 1540H	Cultures of American Capitalism
HIS 1541H	Cultural History and the American Empire
HIS 1543H	Topics in Material Culture
HIS 1544H	The History of Sex, Gender, and Sexuality in the United States, 1945–Present
HIS 1552H	Historical Perspectives on Gender and Migration, 1500–2010
HIS 1555H	Gender and Slavery in the Atlantic World, Seventeenth to Nineteenth Century
HIS 1615H	Research Methods in Japanese Historical and Cultural Studies
HIS 1620H	Asian Diasporas
HIS 1662H	Rethinking Modernity Through Japan
HIS 1663H	Gender in East and Southeast Asia
HIS 1664H	Religion and Society in Southeast Asia
HIS 1667H	Transnational Gender Histories
HIS 1668H	Topics in Early Modern Asian History

HIS 1673H	Critical Historiography of Late Imperial and Modern China
HIS 1674H	China in Global History
HIS 1675H	Imperial Circulation and Diasporic Flows in the British Empire
HIS 1677H	Empire and Nation in Modern East Asia
HIS 1678H	War and Memory in Twentieth-Century East Asia
HIS 1679H	Genealogies of Regionalism and Globalization in East Asia
HIS 1705H	Africa: Writing, Colonialism, and Memory
HIS 1707H	Topics in African History
HIS 1708H	Labour in the Age of Imperialism
HIS 1709H	Conversion and Christianities in the Early Modern Spanish World (joint graduate/undergraduate)
HIS 1710H	Comparative Slavery in the Caribbean and Latin America
HIS 1720H	Emancipate Yourselves from Mental Slavery? Historical Narratives of Caribbean Decolonization
HIS 1784H	The Islamic Revolution
HIS 1785H	International Relations in the Middle East
HIS 1800H	Global Histories of the Archives
HIS 1830H	Critical Approaches to Historical Anthropology
HIS 1850H	Queer Archives and LGBTQ History
HIS 1870H	History on Film/Film on History
HIS 1997H	The Practice of History (Credit/No Credit)
HIS 1998H,Y	Reading Course
HIS 1999H,Y	Reading Course
HIS 2000Y ⁰	Directed Research
JBP 2230H	Topics in International Politics
JHP 1289Y	Twentieth Century Ukraine (joint graduate/ undergraduate)
JHP 1631H	Intelligence and International Relations
JHP 2231H	The History and Philosophy of International Relations Thought

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

Courses in Other Departments Taught by History Faculty

COL 5027H	Memory, Trauma, and History
COL 5044H	A Journey from Petersburg to Los Angeles
MST 1110H	Diplomatics and Diplomatic Editing
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

Austin, Robert - BA, MA, PhD
 Bartlett, Kenneth - BA, MA, PhD
 Bender, Daniel Eric - BA, PhD
 Bergen, Doris - MA, PhD
 Birla, Ritu - BA, MPH, PhD
 Bohaker, Heidi - BA, BEd, MA, DPhil
 Bothwell, Robert - BA, AM, PhD
 Brown, Elspeth - MA, PhD
 Chin, Carol - BA, MA, PhD
 Cochelin, Isabelle - DipdESup, BA, MA, PhD
 Cohen, Paul - AM, PhD
 English, John - AM, PhD
 Everett, Nicholas - BA, MA, PhD
 Fernandez, Angela - LLB, BA, BCL, LLM, MA, SJD
 Fujitani, Takashi - BA, MA, PhD
 Gabaccia, Donna R. - 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
 Hanssen, Jens - BPhil, DPhil
 Hawkins, Sean - MA, PhD
 Hood, Adrienne - PhD
 Iacovetta, Franca - AB, AM, PhD

Ingham, John - BA, MA, PhD
 Jenkins, Jennifer - BA, MA, PhD
 Jennings, Eric - BA, PhD
 Kale, Madhavi - 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, OC
 Kivimae, Juri - AM, PhD
 Kwee, Hui Kian - BA, MA, PhD
 Lahusen, Thomas - MA, PhD
 Lam, Tong - BSc, MA, PhD
 Langins, Janis - BEng, MEng, MA, PhD
 Loeb, Lori - BA, PhD
 MacDowell, Laurel - BA, MSc, PhD
 MacMillan, Margaret - BPhil, DPhil
 Magocsi, Paul - BA, MA, MA, PhD, FRSC
 McGowan, Mark - BA, MA, PhD
 Meyerson, Mark - BA, PhD
 Mills, Kenneth - MA, PhD
 Mills, Sean - MA, PhD
 Morgan, Cecilia Louise - BA, BA, MA, PhD
 Mori, Jennifer - PhD
 Murphy, Michelle - BA, PhD
 Musisi, Nakanyike - PhD
 Nelson IV, William Max - BA, MSS, MA, PhD
 Newton, Melanie - BA, PhD
 Noel, Janet - BA, MA, PhD
 Penfold, Steven - MA, PhD (**Associate Chair, Graduate**)
 Penslar, Derek - BA, MA, PhD
 Phillips, James - LLB, MA, PhD
 Pilcher, Jeffrey - BA, MA, PhD
 Pruessen, Ronald - BA, MA, PhD
 Quayson, Ato - BA, PhD
 Radforth, Ian - BA, MA, PhD
 Raman, Bhavani - BA, MA, PhD
 Retallack, James - BA, DPhil
 Rockel, Stephen - AM, DPhil
 Rothman, Ella Natalie - MA, DPhil
 Schmid, Andre - BA, MA, PhD
 Sharma, Jayeeta - BA, MPH, MA, PhD
 Shorter, Edward - BA, MA, PhD
 Shternshis, Anna - MA, PhD
 Silano, Giulio - BA, LLB, BEd, MA, PhD
 Smith, Alison - AM, PhD
 Smyth, Denis - BA, PhD
 Su, Anna - LLM, SJD, JD
 Terpstra, Nicholas - BA, MA, PhD (**Graduate Chair**)
 Tran, Nhung - MA, PhD, CRC
 Viola, Lynne - BA, MA, PhD
 Virani, Shafique - PhD
 Wark, Wesley - BA, BA, MA, PhD
 Wilson, David - BA, MA, PhD
 Wittmann, Rebecca - AB, MA, PhD
 Wrobel, Piotr Jan - MA, PhD

Degree and Diploma Programs by Graduate Unit

Members Emeriti

Abray, L Jane - BA, MA, MPH, PhD
Accinelli, Robert - BA, MA, PhD
Aster, Sidney - BA, MA, PhD
Beattie, John - BS, MA, PhD, FRSC, FRHistS
Berger, Carl - BA, MA, PhD
Berman, William - BA, MA, PhD
Blanchard, Peter - BA, PhD
Bliss, J Michael - BA, MA, PhD
Brown, Robert Craig - MA, PhD
Callahan, William - AB, MA, PhD
Cook, Ramsay - MA, PhD
Davis, Natalie - BA, MA, PhD
Dent, Julian - BA, MA, PhD
Dowler, E Wayne - BA, AM, PhD
Dyck, Harvey - BA, MA, PhD
Eksteins, Modris - BPhil, BA, DPhil
Estes, James - MA, PhD
Finlayson, Michael - BA, PhD
Goffart, Walter - AB, AM, PhD
Grendler, Paul - BA, MA, PhD
Israel, Milton - BS, MA, PhD
Johnson, Robert - BA, PhD
Klein, Martin - BS, MA, PhD
Kornberg, Jacques - BA, PhD
Levere, Trevor - BA, MA, DPhil
Lloyd, Trevor - BA, MA, DPhil
Marrus, Michael - BA, MA, LLM, PhD
Morton, Desmond - BA, MA, PhD
Murray, Alexander - BA, PhD
Nelson, Wendy - BS, MHSc
Raby, David - BA, PhD
Robertson, Ian - BA, MA, PhD
Robson, Ann - BA, MA, PhD
Rossos, Andrew - BA, MA, PhD
Rutherford, Paul - BA, MA, PhD
Todd, Barbara - BA, MA, DPhil
Van Kirk, Sylvia - BA, MA, PhD
Wagle, Narendra - BA, MA, PhD
Wayne, Michael - BA, BA, PhD

Associate Members

Bertram, Laurie - MA, PhD
Blake, Art - BA, PhD
Van Isschot, Luis - MA, PhD

History and Philosophy of Science and Technology

Faculty Affiliation

Arts and Science

Degree Programs

History and Philosophy of Science and Technology

MA

PhD

Fields:

History of Mathematics and Physical Sciences
History of Medicine and Life Sciences
History of Technology
Philosophy of Science

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
2. **Sexual Diversity Studies**
 - 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**. IHPST 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 IHPST'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. The application deadline is January 15.

Degree and Diploma Programs by Graduate Unit

Applicants who wish to take one or more of the courses offered by IHPST as non-degree students should apply for admission as Special Students. The application procedures are the same as for those of the MA program, but the deadline for applications is May 1.

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 (IHPST)
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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy IHPST's additional admission requirements stated below.
- 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 used to judge applicants.
- Applications must be accompanied by a 300- to 500-word statement of interest 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 January 15.
- 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 3.0 full-course equivalents (FCEs). A student's curriculum is arranged in consultation

Degree and Diploma Programs by Graduate Unit

with the student's faculty advisor and the Director of Graduate Studies. Students make course choices consistent with a commitment to either:

- one of the three history fields (History of Mathematics and Physical Sciences; History of Medicine and Life Sciences; History of Technology), **or**
- the philosophy field (Philosophy of Science).
- Students in a history field must:
 - complete HPS 1000H *Introduction to the History and Philosophy of Science and Technology* (in the first session)
 - complete 1.0 FCE from the HPS 2000 series and 0.5 FCE from the HPS 3000 series
 - demonstrate a reading knowledge of French or German; language instruction courses are not counted in the 3.0 FCEs required for the degree.
- Students in the philosophy field must:
 - complete HPS 1000H *Introduction to the History and Philosophy of Science and Technology* (in the first session)
 - complete 0.5 FCE from the HPS 2000 series and 1.0 FCE from the HPS 3000 series
 - demonstrate proficiency in introductory logic, a reading knowledge of French, or a reading knowledge of German; logic and language instruction courses are not counted in the 3.0 FCEs required for the degree.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

15 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. Applicants must also satisfy IHPST's additional admission requirements stated below.

Full-Time PhD

- Applicants must be admitted via one of the following routes:
 - Direct entry: 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 used to judge applicants.

- Applications must be accompanied by a 300- to 500-word statement of interest 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 January 15.
- 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

Flexible-Time PhD

- With the approval of the Director of Graduate Studies, some applicants may be admitted to a flexible-time PhD option. Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. This option will benefit mature students who remain active in their professional careers during the PhD, such as physicians, engineers, educators, and IT professionals. The option will enable them to engage in supervised research in the history and/or philosophy of their profession.
- Students will be admitted on the basis of a master's degree in History and Philosophy of Science and Technology; admission based on a bachelor's degree is not available.

Program Requirements

Full-Time PhD

- Students admitted on the basis of a **bachelor's degree** (direct-entry) must:
 - Complete 6.0 full-course equivalents (FCEs) in total; of these, students must complete all of the MA program requirements including language proficiency, normally in Year 1.
 - Complete all required courses by the end of Year 2. The exception is HPS 1100Y, which should be completed at the end of Year 3.
- Students admitted on the basis of a **master's degree** must:
 - Complete 3.0 FCEs; a student whose MA degree does not exhibit sufficient breadth is required to take additional courses.
- All students must:
 - Make course choices consistent with a commitment to either:

Degree and Diploma Programs by Graduate Unit

- one of the three **history fields** (History of Mathematics and Physical Sciences; History of Medicine and Life Sciences; History of Technology). Students in the history fields must demonstrate reading knowledge of French or German; language instruction courses are not counted in the FCEs required for the degree.

or

- the **philosophy field** (Philosophy of Science). Students in the philosophy field must demonstrate proficiency in introductory logic, a reading knowledge of French, or a reading knowledge of German; logic and language instruction courses are not counted in the FCEs required for the degree.
- Arrange the balance of their curriculum in consultation with the Director of Graduate Studies and faculty instructors.
- Submit a proposal for an extended research paper (required for HPS 1100Y), by end of Year 1 for students who enter with a master's degree and by end of Year 2 for students who enter with a bachelor's degree. Students are responsible for ensuring that they have an appropriate supervisor. 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.
- 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 1100Y research paper. Students falling below these standards may be recommended for termination from the program.
- Demonstrate 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; and a physical, life, or social science.
- 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.
- Submit a thesis proposal approved by the student's thesis supervisory committee and the Director of Graduate Studies.

Flexible-Time PhD

- Degree requirements for the flexible-time option are identical to those listed above for the full-time PhD program, except that the program of study will relate to the student's work and vice versa.

- Students in the flexible-time option are required to register full-time for the first four years of the program. Thereafter, they may register part-time.
- Transfers between the full-time PhD program and the flexible-time PhD 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.
- The student will develop a thesis proposal, which must be approved by the student's thesis supervisory committee and the Director of Graduate Studies.

Program Length

4 years full-time; 5 years direct-entry (full-time); 6 years flexible-time

Time Limit

6 years (full-time); 7 years direct-entry (full-time); 8 years flexible-time

Course List

Not all courses are offered every year. Consult IHPST regarding course offerings.

History and Philosophy of Science and Technology

HPS 1000H	Introduction to the History and Philosophy of Science and Technology (pro-seminar: required for all students in their first session)
HPS 1001H	Individual Reading and Research in History and Philosophy of Science and Technology
HPS 1002H	Individual Reading and Research in History and Philosophy of Science and Technology
HPS 1003H	Individual Reading and Research in History and Philosophy of Science and Technology
HPS 1005Y	Individual Reading and Research in History and/or Philosophy of Science and Technology
HPS 1010H	Theory of Scientific Change
HPS 1100Y	Advanced Research Paper (required for all students)
HPS 1500H ⁺	Research Paper (available only to pre-2005 admitted students)
HPS 2000H	Introduction to the History of Mathematics
HPS 2001H	Introduction to the History of Physics

Degree and Diploma Programs by Graduate Unit

HPS 2002H	Introduction to the History of Chemistry
HPS 2003H	Introduction to the History of Biology
HPS 2004H	Introduction to the History of Medicine
HPS 2005H	Introduction to the History of Technology I
HPS 2006H	Introduction to the History of Technology II
HPS 2007H	Introduction to the History of Astronomy
HPS 2008H	Introduction to the History of Psychology
HPS 2009H	Introduction to the History and Philosophy of the Social Sciences
HPS 3000H	Introduction to Philosophy of Science
HPS 3001H	Introduction to the Philosophy of Biology
HPS 3002H	Introduction to the History and Philosophy of Science
HPS 4000H	Historical Introduction to the Sociology of Scientific Knowledge
HPS 4001H	The Scientific Revolution: Galileo to Newton
HPS 4002H	History of Systematics
HPS 4003H	History of Evolutionary Biology
HPS 4004H	The Intellectual Context of Nineteenth-Century Science
HPS 4005H	History of Physiology
HPS 4006H	History of Immunology
HPS 4007H	Body, Medicine, and Society in Early Modern Europe
HPS 4008H	Chemistry from Lavoisier to Mendeleev
HPS 4009H	The Invention of Modern Biology
HPS 4010H	Newton and Mechanics
HPS 4011H	History of Engineering
HPS 4012H	Science in Canadian History
HPS 4013H	History of Medical Microbiology
HPS 4014H	The Biology of Death: Experimental Biology and Experimental Medicine, 1860–1940
HPS 4015H	Science in the Renaissance
HPS 4016H	Human Genetics and the Eugenics Movement

HPS 4017H	The Rise of Eugenics: A Comparative History
HPS 4018H	The Emergence of Modern Mathematics in the Eighteenth and Nineteenth Centuries
HPS 4019H	Studies in Ancient and Medieval Science
HPS 4020H	Medieval Technology and Society
HPS 4021H	Technology and War: 1090–1918
HPS 4100H	Historical Topics in Scientific Methodology
HPS 4101H	Topics in the History of Physics in the Eighteenth and Nineteenth Centuries
HPS 4102H	Topics in the History of Technology
HPS 4103H	Topics in the History of Chemistry, 1600–1950
HPS 4104H	Topics in Ancient Greek and Scientific Revolution Mathematics
HPS 4105H	Topics in the History of the Social and Behavioural Sciences
HPS 4300H	Historical Research: Methods, Sources, Approaches
HPS 4500H	Religion and Science on Human Sexuality
HPS 4501H	Biology and Human Nature
HPS 4502H	Teleology, Adaptation, and Design
HPS 4503H	Philosophy Applied to History of Science
HPS 4504H	Laws of Nature
HPS 4505H	Complexity, Reduction, and Emergence in Contemporary Biology
HPS 4506H	Philosophy of Medicine
HPS 4508H	Philosophy of Physics
HPS 4509H	Philosophy of Probability
HPS 4510H	Philosophy of Economics
HPS 4511H	Philosophy of Science and Religion
HPS 4512H	Thought Experiments
HPS 4513H	The Marxist Theory of Knowledge and History
HPS 4514H	Conceptual and Theoretical Foundations of Historiography
HPS 4600H	Topics in the Philosophy of Science
HPS 4601H	Topics in the Philosophy of Science: Empiricism

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

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
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History

HIS 1269H	The Social History of Medicine in the Nineteenth and Twentieth Centuries
HIS 1270H	History of Psychiatry and Psychiatric Illness

See the 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
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Philosophy

PHL 2010H	Late Greek Philosophy: Plotinus
PHL 2051H	The Rationalists: Spinoza's Metaphysics
PHL 2131H	Ethics
PHL 2132H	Seminar in Ethics
PHL 2133H	Topics in Ethics: Theories of the Good
PHL 2145H	Bioethics
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, FRSC
 Castle, David - BA, BSc, MA, PhD
 Chakravartty, Anjan - BSc, MPH, MA, PhD
 Cohen, Elizabeth - BA, MA, PhD
 Dacome, Lucia - BA, MPH, PhD
 Fehige, Yiftach - MA, PhD, DTh
 Fraser, Craig - BA, MA, PhD (**Director**)
 Gingras, Yves - BSc, MSc, PhD
 Hehmeyer, Ingrid - MSc, MSA, PhD
 Hull, James - BSc, MA, PhD
 Huneman, Philippe - BM, MMATH, PhD
 Krementsov, Nikolai - PhD
 Langins, Janis - BEng, MEng, MA, PhD
 Lightman, Bernard - BA, MA, PhD
 Morrison, Margaret - BA, MA, PhD
 Murphy, Michelle - BA, PhD
 Penfold, Steven - MA, PhD
 Seager, William Edward - BA, MA, PhD
 Snobelen, Stephen - BA, MA, MPH, PhD
 Solovey, Mark - BA, MA, AM, PhD
 Thompson, Paul - BA, MA, PhD
 Upshur, Ross Edward - BA, MA, MSc, MD
 Vicedo Castello, Maria - BA, MA, PhD, PhD
 Walsh, Denis - BA, BSc, MPH, PhD, PhD
 Wolfe, David - BA, MA, 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, FRSC
 Goldstick, Daniel - BA, BPhil, DPhil
 Hall, Bert - BA, PhD
 Levere, Trevor - BA, MA, DPhil
 Mazumdar, Pauline - MSc, MD, PhD
 Winsor, Mary - AB, MPH, PhD

Associate Members

Barseghyan, Hakob - BCS, MA, MA, PhD, PhD

Degree and Diploma Programs by Graduate Unit

Immunology

Faculty Affiliation

Medicine

Degree Programs

Immunology

MSc	<i>Fields:</i> Applied Immunology Fundamental Immunology
PhD	<i>Field:</i> Fundamental Immunology

Combined Degree Program

MD / 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. **Human Development**
 - Immunology, PhD
3. **Resuscitation Sciences**
 - Immunology, MSc, PhD
4. **Women's Health**
 - Immunology, MSc, PhD

Students in the Applied Immunology field (including the advanced-standing option) are not eligible to participate in collaborative programs.

Overview

The Department of Immunology provides a common forum for investigators in many areas of the University of Toronto and an interdisciplinary research experience in immunology. Members and students in the department are located at the Medical Sciences Building; the Ontario Cancer Institute; and the research institutes of Mount Sinai Hospital, Toronto General Hospital, Toronto Western Hospital, the Hospital for Sick Children, and Sunnybrook Hospital.

The **Master of Science** degree program is offered in two distinct fields of study: Applied Immunology and Fundamental Immunology. The **Doctor of Philosophy** degree program is offered in Fundamental Immunology.

These degrees cover a wide range of immunological sub-disciplines including 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, anergy, apoptosis, transgenic and knock-out models, immuno-targeting and vaccine design, autoimmunity, AIDS, diabetes, and transplantation. For more details, see the department's graduate handbook or consult the Immunology website.

Contact and Address

Web: www.immunology.utoronto.ca
Email: graduate.immunology@utoronto.ca
Telephone: (416) 978-6382
Fax: (416) 978-1938

Department of Immunology
University of Toronto
Medical Sciences Building
Room 7207, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs Immunology

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Immunology's additional admission requirements stated below.
- 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 Graduate Record Examination (GRE) (general) scores with their application.

Field: Applied Immunology

- Before starting the program, applicants must have completed either:
 - SCS 3128H or
 - both IMM 340H and IMM 350H; both half courses previously made up the full course IMM 334Y.

Field: Applied Immunology (Advanced-Standing Option)

- Applicants with an Immunology specialist or major undergraduate degree from the University of Toronto may be eligible for advanced standing.
- Applicants must have completed the following University of Toronto undergraduate courses: IMM 435H, IMM 450Y, and two of IMM 428H, IMM 429H, or IMM 430H.
- Applicants must already have a research supervisor who is a graduate faculty member in the Department of Immunology.

Field: Fundamental Immunology

- Applicants lacking adequate training in biological or natural sciences may be advised to do extra coursework necessary for their research.

Program Requirements

Field: Applied Immunology

- Successful completion of 7.5 full-course equivalents (FCEs) as follows:
 - Year 1:
 - 2.5 FCEs: IMM 1435H, IMM 1450Y, IMM 1550Y
 - 1.0 FCE selected from IMM 1428H, IMM 1429H, or IMM 1430H
 - Year 2:
 - 1.0 FCE: IMM 2021H, IMM 1100H
 - 1.5 FCEs: IMM 2550Y (completed over three sessions)
 - 1.5 FCEs selected from the course list below.
- Students are required to be on campus and participating full-time until the program requirements of research and coursework have been completed.

Course List

Not all courses are offered every year. Please consult the department for details.

BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy
IMM 1100H	Easton Immunology Seminar Series (Credit/No Credit)
IMM 1428H	Molecular Immunology
IMM 1429H	Developmental Immunology
IMM 1430H	Clinical Immunology
IMM 1435H	Practical Immunology
IMM 1450Y	Major Research Project in Immunology I
IMM 1550Y	Major Research Project in Immunology II
IMM 2021H ⁰	Special Topics in Immunology I
IMM 2031H	Single Cell Resolution Assays in Immunology—Flow Cytometry
IMM 2041H	Techniques in Histology for Studying Immune Organs and Inflamed Tissues
IMM 2550Y	Major Research Project in Immunology III
IMM 2888H	Immunology of Pandemic Disease
JBZ 1472H	Computational Genomics and Bioinformatics
JFK 1120H	Selected Topics in Drug Development I

Degree and Diploma Programs by Graduate Unit

JFK 1121H	Selected Topics in Drug Development II
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
LMP 1006H	Cellular Imaging in Pathobiology
LMP 1019H	Research Techniques in Molecular Biology and Pathobiology
LMP 1407H	Introductory Biostatistics and Clinical Investigation

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

Program Length

6 sessions full-time (typical registration sequence: (F/W/S/F/W/S))

Time Limit

3 years full-time

Field: Applied Immunology (Advanced-Standing Option)

- Successful completion of 5.0 full-course equivalents (FCEs) as follows:
 - 1.0 FCE: IMM 1550Y, completed in the first Summer session
 - 1.5 FCEs: IMM 2550Y, completed over the last three sessions
 - 1.0 FCE: IMM 1100H and IMM 2021H
- 1.5 FCEs selected from the course list below.

Course List

Not all courses are offered every year. Please consult the department for details.

BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy
IMM 2031H	Single Cell Resolution Assays in Immunology—Flow Cytometry
IMM 2041H	Techniques in Histology for Studying Immune Organs and Inflamed Tissues
IMM 2888H	Immunology of Pandemic Disease
JBZ 1472H	Computational Genomics and Bioinformatics
JFK 1120H	Selected Topics in Drug Development I
JTB 2020H	Applied Bioinformatics
LMP 1006H	Cellular Imaging in Pathobiology
LMP 1019H	Research Techniques in Molecular Biology and Pathobiology
LMP 1407H	Introductory Biostatistics and Clinical Investigation

Degree and Diploma Programs by Graduate Unit

Program Length

4 sessions full-time (typical registration sequence: S/F/W/S)

Time Limit

3 years full-time

Field: Fundamental Immunology

- Successful completion of 2.5 full-course equivalents (FCEs): IMM 1100H, IMM 1016Y, IMM 1019H, and IMM 2021H.
- A satisfactory thesis embodying the student's research.
- Pass an oral examination based on research.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Field: Fundamental Immunology

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Immunology's additional admission requirements stated below.
- There are three admission routes to the PhD program:
 1. Applicants may be accepted for direct entry with a BSc degree, with at least an A- average in their final year.
 2. 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.
 3. 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 IMM 1016Y, 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.

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 1016Y	Recent Advances in Immunology
IMM 1019H ⁰	Immunology Student Seminar Series (Credit/No Credit)
IMM 1020H	Recent Advances in Clinical Immunology (Spring)
IMM 1428H	Molecular Immunology (Fall)
IMM 1429H	Developmental Immunology (Fall)
IMM 1430H	The Immune Response
IMM 2021H ⁰	Special Topics in Immunology I (Credit/No Credit)
IMM 2100H ⁰	Special Topics in Immunology II (Credit/No Credit)

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

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Graduate Faculty

Full Members

Anderson, Michele - BS, PhD
Berger, Stuart - BSc, MSc, PhD (**Coordinator of Graduate Studies**)
Berinstein, Neil - MD
Carlyle, James - PhD
Danska, Jayne - AB, PhD
Dosch, Hans - MD
Dunn, Shannon - BSc, MSc, PhD
Ehrhardt, Rudolf - MS, PhD
Fish, Eleanor - BSc, MPH, PhD
Gommerman, Jennifer - BSc, PhD

Degree and Diploma Programs by Graduate Unit

Gorczynski, Reginald - BSc, BA, MA, MD, PhD
Guidos, Cynthia - BSc, PhD
Hakem, Razqallah - PhD
Iscoe, Norman - MD, PhD
Jongstra, Jan - MSc, PhD
Julius, Michael - BSc, PhD
Kaul, Rupert - MD, PhD
Kelvin, David - MSc, PhD
Levy, Gary - BSc, MD
MacDonald, Kelly - MD
Mak, Tak - BSc, MSc, PhD
Mallevaey, Thierry - MSc, PhD
Martin, Alberto - BSc, MSc, PhD
Ohashi, Pam - BSc, PhD
Ostrowski, Mario - MD
Paige, Christopher - BSc, PhD
Penninger, Josef - MD
Philpott, Dana - BS, PhD
Poussier, Philippe - MD
Rast, Jonathan - MS, PhD
Ratcliffe, Michael - PhD
Roifman, Chaim - MD
Rottapel, Robert - BA, MD
Rubin, Laurence - MD
Schuh, Andre - MD
Siminovitch, Katherine - MD
Tsui, Florence - BSc, MSc, PhD
Watts, Tania - BSc, PhD
Williams, David - BSc, MSc, PhD
Wither, Joan - MD, PhD
Yeung, Rae - DrMed, MD
Zhang, Li - MSc, MD, PhD
Zuniga-Pflucker, Juan Carlos - BSc, BSc, PhD, PhD
(Chair and Graduate Chair)

Members Emeriti

Hay, John - BSc, MSc, PhD
Isenman, David - BSc, BSc, PhD
Letarte, Michelle - BSc, PhD
Shulman, Marc - AB, PhD
Wu, Gillian - BSc, MSc, PhD

Associate Members

Jongstra-Bilen, Jenny - BSc, MSc, PhD
Julien, Jean-Philippe - PhD
Keystone, Edward - BSc, MD
Robbins, Clinton Shane - BS, PhD

Industrial Relations and Human Resources

Faculty Affiliation

Arts and Science

Degree Programs

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
2. **Workplace Learning and Social Change**
 - 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 and human resources management. The degree provides specialized study of the employment relationship using an interdisciplinary approach.

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 M5S 2E8
Canada

Degree Programs Industrial Relations and Human Resources

Master of Industrial Relations and Human Resources

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Centre for Industrial Relations and Human Resources' additional admission requirements stated below.
- 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 and significant academic training in human resources (normally 3.0 full-course equivalents [FCEs] at the senior undergraduate level), employment relations, industrial relations, labour studies, or labour economics. If the admissions committee determines that an applicant does not have sufficient academic training to qualify for advanced standing, the student will be considered for the two-year MIRHR degree. A minimum grade average of B+ in each of the final two years of the degree is required.
- All applicants are encouraged to submit results from the Graduate Record Examination (GRE) or the Graduate Management Admission Test (GMAT). Although these tests are not required and there is no minimum score requirement, this information is helpful to 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 Test of Written English (TWE)
 - Internet-based TOEFL exam: 100/120 and 22/30 on the writing and speaking sections

- Since space in the program is limited, all applicants who meet the minimum admission requirements cannot be guaranteed admission. The Centre for Industrial Relations and Human Resources admissions committee 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.
- Students must have a mid-B average overall to be recommended for the degree.
- Failure in any course (that is, a grade of less than B-) will require a review of the student's program by the department.
- A student who fails two or more courses is no longer in good academic standing and a recommendation for termination will be made to the School of Graduate Studies.

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 prerequisites; further information may be obtained from the Centre for Industrial Relations and Human Resources.

Year 1: Foundation Courses

- Students must take 4.0 full-course equivalents (FCEs), of which 3.5 are required courses, as follows:
 - IRE 1002H *Applied Statistics in Industrial Relations*
 - IRE 1010H *Economic Environment of Industrial Relations and Human Resources*
 - IRE 1126H *Labour Market Policy* (PR)
 - IRE 1362H *Organizational Behaviour*
 - IRE 1609H *Strategic Human Resources Management* (exclusion: RSM 2609H *Aligning People and Strategy*)
 - IRE 1610H *Industrial Relations*
 - plus one of the following law courses:
 - IRE 1270H *Law of Labour Relations*
 - IRE 1338H *Law in the Workplace*
- 0.5 FCE is an elective course that is chosen from the list below to fill the requisite 4.0 FCEs in Year 1 of the program.
- Students admitted into the two-year MIRHR program may apply to take IRE 4000H, a course designed to assist students to gain summer employment in a position that will provide them with work experience relevant to their field of study.
- Students in the MIRHR program are required to achieve a mid-B average in Year 1 of the program

Degree and Diploma Programs by Graduate Unit

(or in the first 4.0 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*
 - IRE 2002H *Research Methods for Industrial Relations and Human Resources* (PR)
 - plus one of the following courses:
 - IRE 2003H *Research Project in Industrial Relations and Human Resources* (PR)
 - IRE 2004H *Data Analytics and Metrics in Industrial Relations and Human Resources* (PR)
- 2.5 FCEs are elective courses that are chosen from the list below to fill the requisite 4.0 FCEs in Year 2 of the program.

Elective Courses

The centre offers key required and elective courses in Industrial Relations and Human Resources. 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. Graduate units give preference to their own students, so 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. 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.

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 to 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 5.5 full-course equivalents (FCEs), of which 3.0 are required courses, as follows:
 - IRE 1010H *Economic Environment of Industrial Relations and Human Resources*
 - IRE 1126H *Labour Market Policy* (PR)

Degree and Diploma Programs by Graduate Unit

- IRE 2001H *Foundations and Current Issues in Industrial Relations and Human Resources*
- IRE 2002H *Research Methods for Industrial Relations and Human Resources* (PR)
- plus one of the following courses:
 - IRE 2003H *Research Project in Industrial Relations and Human Resources* (PR)
 - IRE 2004H *Data Analytics and Metrics in Industrial Relations and Human Resources* (PR)
- plus one of the following law courses:
 - IRE 1270H *Law of Labour Relations*
 - IRE 1338H *Law in the Workplace*
- 2.5 FCEs are elective courses that are chosen from the list below to fill the requisite 5.5 FCEs in the program.
- Students in the MIRHR advanced-standing option are required to achieve a mid-B average in the first 2.5 FCEs of the program in order to continue.

Elective Courses

The centre offers key required and elective courses in Industrial Relations and Human Resources. 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. Graduate units give preference to their own students, so 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. 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.

Program Length

3 sessions advanced-standing option (typical registration sequence: F/W/S);
6 sessions 2-year program (typical registration sequence: F/W/S/F/W/S)

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. Applicants must also satisfy the Centre for Industrial Relations and Human Resources' additional admission requirements stated below.

- Applicants require a Master of Industrial Relations and Human Resources (MIRHR) degree from the University of Toronto, or its equivalent.
- Students with a master's degree in another related social science discipline and students who hold a bachelor's degree in industrial relations or human resources may be considered for admission to the PhD (direct entry) if they have exceptional academic standing and have demonstrated quantitative skills and research ability. Students admitted to the direct-entry PhD will be required to complete additional courses.
- 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 Test of Written English (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)
 - RSM 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.
- Students admitted to the direct-entry PhD will be required to complete up to 4.0 additional FCEs chosen in consultation with 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. It is designed to encourage students to broaden their understanding of industrial relations and human resources, to demonstrate analytical and methodological abilities, and to address current policy issues. The examination is four to five hours in length and graded as Pass/Fail. It is normally set by four faculty members and students must answer one of two questions submitted by each of them.
- A student who fails the first attempt at the exam will be permitted one more attempt. Failure of the second attempt will result in a recommendation for program termination.
- Intensive work on the dissertation will also begin in Year 2 of the PhD program. The thesis topic and name of supervisor must be submitted no later than March 31 of Year 2.
- 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 Year 3 of study (or Year 4 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.

Elective Courses

Students must meet the standards and requirements of the other departments and Faculties in those courses taken outside the centre. 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.

Degree and Diploma Programs by Graduate Unit

Some courses may be available only in the day or in the evening.

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.

Courses marked (PR) require prerequisites; additional information may be obtained from the Centre for Industrial Relations and Human Resources.

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 1010H	Economic Environment of Industrial Relations and Human Resources
IRE 1126H	Labour Market Policy (PR)
IRE 1260H	Seminar on Labour Arbitration (PR)
IRE 1270H	Law of Labour Relations
IRE 1338H	Law in the Workplace
IRE 1362H	Organizational Behaviour
IRE 1600H	International Developments in Labour and Human Resource Policy (PR)
IRE 1609H	Strategic Human Resources Management
IRE 1610H	Industrial Relations
IRE 1611H	Sociology of Industrial Relations
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)

Degree and Diploma Programs by Graduate Unit

IRE 1645H	Alternative Dispute Resolution in the Workplace: Theory and Practice (PR)
IRE 1650H	Designing Systems for Managing Workplace Conflict (PR)
IRE 1655H	Health and Safety
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 1730H	Contemporary Challenges Facing Today's Organizations (PR)
IRE 2001H	Foundations and Current Issues in Industrial Relations and Human Resources
IRE 2002H	Research Methods for Industrial Relations and Human Resources (PR)
IRE 2003H	Research Project in Industrial Relations and Human Resources (PR)
IRE 2004H	Data Analytics and Metrics for Industrial Relations and Human Resources (PR)
IRE 2021H	Financial Information for IR/HR
IRE 2715H	Special Topics in Industrial Relations and Human Resources
IRE 3002Y	Research Seminar I
IRE 3003H	Research Seminar II (PR)
IRE 3004H	Special Topics in Employment and Industrial Relations
IRE 3005H	Workshop in Industrial Relations I (Credit/No Credit)
IRE 3006H	Workshop in Industrial Relations II (Credit/No Credit)
IRE 3062H	Methods and Research in Organizational Behaviour and Industrial Relations
IRE 3615H	Performance Management Systems (PR)
IRE 3620H	Consulting 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)

IRE 3655H	Leadership (PR)
IRE 3715H	Special Topics in Industrial Relations and Human Resources

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)

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
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Social Work

SWK 4403H	Women and Social Policy in Canada
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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)
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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

Graduate Faculty

Full Members

Amernic, Joel - BSc, MBA, CA
 Campolieti, Michele - BSc, MA, PhD (**PhD Coordinator**)
 Dhuey, Elizabeth Ann - BA, MEd, PhD
 Gomez, Rafael - BA, MA, MIR, PhD (**Director, Centre for Industrial Relations and Human Resources**)
 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
 Reitz, Jeffrey - PhD
 Rotundo, Maria - BA, MA, PhD
 Saks, Alan - BA, MSc, PhD
 Verma, Anil - BTech, MBA, PhD
 Welsh, Sandy - BA, MA, PhD
 Whyte, Glen - LLB, MA, MPH, MBA, PhD
 Xie, Jia Lin - BA, MBA, PhD

Members Emeriti

Reid, Frank - BA, MSc, PhD

Associate Members

Gonzalez-Navarro, Marco - PhD
 Heathcote, Joanna - BA, MA, PhD
 Radhakrishnan, Phanikiran - DPhil
 Rittich, Kerry - BAMus, LLB, SJD
 Riznek, Lori - BA, MA, DA
 Sawchuk, Peter - BSc, BEd, PhD

Information

Faculty Affiliation

Information

Degree Programs

Information

MI

Concentrations:

Archives and Records Management
Critical Information Policy Studies
Culture and Technology
Information Systems and Design
Knowledge Management and
Information Management
Knowledge Media Design
Library and Information Science

Concurrent Registration Option (MI / MMSt)

Information Studies

PhD

Concentrations:

Archives and Records Management
Critical Information Policy Studies
Cultural Heritage
Information Systems and Design
Knowledge Management and
Information Management
Library and Information Science
Philosophy of Information

Museum Studies

MMSt

Concurrent Registration Option (MMSt / MI)

Combined Degree Programs

Communication, Information and Technology (Major),
Honours BA / MI

Digital Enterprise Management (Specialist), Honours
BA / MI

Interactive Digital Media (Specialist), Honours BA / MI

Law, JD / MI

Diploma Program

Information Studies

Graduate Diploma of Advanced Study in Information
Studies (a post-master's diploma)

Collaborative Programs

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

1. **Addiction Studies**
 - Information, MI
 - Information Studies, PhD
2. **Aging, Palliative and Supportive Care Across the Life Course**
 - Information, MI
 - Information Studies, PhD
3. **Book History and Print Culture**
 - Information, MI
 - Information Studies, PhD
 - Museum Studies, MMSt
4. **Environmental Studies**
 - Information, MI
 - Information Studies, PhD
5. **Jewish Studies**
 - Information Studies, PhD
 - Museum Studies, MMSt
6. **Knowledge Media Design**
 - Information, MI
 - Information Studies, PhD
 - Museum Studies, MMSt
7. **Sexual Diversity Studies**
 - Information, MI
 - Information Studies, PhD
 - Museum Studies, MMSt
8. **Women and Gender Studies**
 - Information, MI
 - Information Studies, PhD
9. **Women's Health**
 - Information, MI
 - Information Studies, PhD

For more information, please visit
www.ischool.utoronto.ca.

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. Students may choose one of two pathways to completion: the general program including coursework-only or thesis options; or the concentration pathway in which students choose one or two of seven concentrations. Within the concentration pathway, students may complete the concentration(s) only, or concentration(s) plus a thesis, or concentration(s) plus a co-op placement.

The **Combined Degree Program in Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information** allows students to complete two degree programs in less time than it would take to acquire them separately. For full details, see the Combined Degree Programs

The **Combined Degree Program in Digital Enterprise Management (Specialist), Honours Bachelor of Arts / Master of Information** allows students to complete two degree programs in less time than it would take to acquire them separately. For full details, see the Combined Degree Programs section of this calendar.

The **Combined Degree Program in Interactive Digital Media (Specialist), Honours Bachelor of Arts / Master of Information** allows students to complete two degree programs in less time than it would take to acquire them separately. For full details, see the Combined Degree Programs section of this calendar.

The **Combined Degree Program in Law, Juris Doctor / Master of Information** program allows students to complete two degree programs in less time than it would take to acquire them separately. For full details, see the Combined Degree Programs section of this calendar.

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 and Master of Museum Studies programs.

A post-master's **Graduate Diploma of Advanced Study in Information Studies** is also offered.

Contact and Address

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 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

- The Faculty of Information offers two pathways to complete the Master of Information (MI) program:
 - concentration pathway:** students choose one or two of seven concentrations and may complete:
 - concentration(s) only,
 - concentration(s) plus a thesis, or
 - concentration(s) plus a co-op (CCO)
 - general program pathway** (no concentrations), including coursework-only or thesis options.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Application deadlines are available on the Faculty of Information website. Applicants must also satisfy the Faculty's additional admission requirements stated below.
- 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 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 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 full-course equivalents (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 proficiency in the English language. This requirement is a condition of admission and must be met before an offer of admission is made.

Degree and Diploma Programs by Graduate Unit

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.

Concentration-Plus-Co-operative Option (CCO)

- To be considered for the CCO, Year 1 full-time MI program students must apply during the first (Fall) session of Year 1. For more information, visit www.ischool.utoronto.ca. Acceptance is limited and not guaranteed. Inquiries about the CCO may be emailed to iSchoolCoop@utoronto.ca.

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 minimum requirement is completion of 8.0 FCEs, regardless of pathway or option therein.
- All students must successfully complete all degree requirements as outlined for either the concentration pathway or for the general program pathway.
- The Faculty of Information expects students to be competent in their use of information and communication technologies as appropriate to their programs of study.

Concentration Pathway

- The Faculty of Information offers seven concentrations leading to the MI degree:
 1. Archives and Records Management
 2. Critical Information Policy Studies
 3. Culture and Technology
 4. Information Systems and Design
 5. Knowledge Management and Information Management
 6. Knowledge Media Design

7. Library and Information Science
- Each concentration requires a total of **8.0 full-course equivalents (FCEs)**.
 - **Concentration-only option:**
 - Two quarter-weight core courses (0.5 FCE total).
 - Five required half courses (2.5 FCEs total specific to each concentration); note: the Knowledge Media Design concentration requires three half courses and one full course.
 - Plus 10 additional elective half courses (5.0 FCEs total).
 - **Concentration-plus-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. 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.

 - Two quarter-weight core courses (0.5 FCE total).
 - Five required half courses (2.5 FCEs total, specific to each concentration); note: the Knowledge Media Design concentration requires three half courses and one full course.
 - One research methods course (0.5 FCE total).
 - One reading course (0.5 FCE total).
 - A thesis (2.0 FCEs total).
 - Plus four additional elective half courses (2.0 FCEs total).
 - Faculty approval is required to enter the thesis option.
 - For information about completing a thesis in the General Pathway, please see the General Pathway program requirements below.
 - **Concentration-plus-co-op option:**
 - Two quarter-weight core courses (0.5 FCE total).
 - Five required half courses (2.5 FCEs total, specific to each concentration); note: the Knowledge Media Design concentration requires three half courses and one full course.
 - Two 12-week co-op courses (1.0 FCE total).
 - Plus eight additional elective half courses (4.0 FCEs total).

Concentration: Archives and Records Management (ARM)

- 0.5 core FCE (INF 1005H and 1006H).
- 2.5 required FCEs (INF 1003H, INF 1330H, INF 1331H or INF 2186H, INF 2175H, and INF 2184H).
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Critical Information Policy Studies (CIPS)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (INF 1001H, INF 2181H, INF 2198H, INF 2240H, and INF 2242H)
- 5.0 elective FCEs or

co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Culture and Technology (C&T)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (INF 1240H, INF 1501H, INF 1502H, INF 2010H, and INF 2241H)
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Information Systems and Design (IS&D)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (INF 1340H, INF 1341H, INF 1342H, INF 1343H, and INF 2177H)
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Knowledge Management and Information Management (KMIM)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (INF 1003H, INF 1230H, INF 2175H, INF 2176H, and INF 2186H)
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Knowledge Media Design (KMD)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (KMD 1001H, KMD 1002H, KMD 2001H, and INF 1601Y)
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

Concentration: Library and Information Science (LIS)

- 0.5 core FCE (INF 1005H and 1006H)
- 2.5 required FCEs (INF 1230H, INF 1240H, INF 1300H, INF 1310H, and INF 1320H)
- 5.0 elective FCEs or co-op (1.0 FCE) plus 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs.

General Program Pathway (No Concentrations)

Coursework Option

- 2.0 core FCEs (INF 1001H, INF 1002H, INF 1003H, INF 1005H, and 1006H).
- 6.0 elective FCEs.

Degree and Diploma Programs by Graduate Unit

- Students choosing the coursework option must have their program of study approved by the Graduate Coordinator.

Thesis Option

- 2.0 core FCEs (INF 1001H, INF 1002H, INF 1003H, INF 1005H, and 1006H)
- 0.5 required FCE consisting of one research methods half course appropriate to the student's program of study with a final grade of at least A-
- 0.5 required FCE reading course with a student's intended supervisor, with a final grade of at least A-
- 2.0 thesis FCEs
- 3.0 elective FCEs (six additional half courses which may include up to four graduate half courses [2.0 FCEs] taken outside the MI program)
- Faculty approval is required to enter the thesis option.
- For information about completing a thesis in the concentration option, please see the program requirements above for the concentration pathway.

Program Length

4 sessions (2 years) full-time (typical registration sequence: F/W/F/W);
CCO only: 6 sessions (2 years) full-time (typical registration sequence: F/W/S/F/W/S);
11 sessions (5.5 years) part-time

Time Limit

3 years full-time;
6 years part-time

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 program length 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:
 - For students who choose the concentration pathway to fulfil the MI degree requirements:
 - 0.5 core full-course equivalents (FCEs) (INF 1005/1006H) in the MI program, counted towards the MI degree;
 - 2.5 required FCEs identified for the chosen concentration, counted towards the MI degree;
 - 2.0 FCEs in required courses in the MMSt program, counted towards the MMSt degree;
 - at least 2.0 FCEs in elective courses in the MI program, to be counted towards the MI degree;
 - at least 3.0 FCEs in elective courses in the MMSt program, to be counted towards the MMSt degree;

Degree and Diploma Programs by Graduate Unit

- an additional 3.0 FCEs in elective courses chosen from the MI program, the MMSt program, or from other programs (maximum 2.0 FCEs from other programs), to be counted towards both the MI and the MMSt degree.
- For students who choose the general program pathway to fulfil the MI requirements:
 - 2.0 core FCEs (INF 1001H, INF 1002H, INF 1003H, INF 1005/1006H) in the MI program, counted towards the MI degree;
 - 3.5 FCEs in required courses in the MMSt program, counted towards the MMSt degree;
 - at least 3.0 FCEs in elective courses in the MI program, to be counted towards the MI degree;
 - at least 1.5 FCEs in elective courses in the MMSt program, to be counted towards the MMSt degree;
 - an additional 3.0 FCEs in elective courses chosen from the MI program, the MMSt program, or from other programs (maximum 2.0 FCEs from other programs), to be counted towards both the MI and the MMSt degree.
- Path to completion—Students complete Year 1 in one of the programs (taking all of the core/required courses); Year 2 in the other program (again taking all of the core courses); and Year 3 taking courses from both programs to complete the requirements. It does not matter which program is taken first, MI or MMSt.
- Registration in a CRO may affect eligibility for external and internal graduate awards and bursaries.

Program Length

8 sessions (3 years) full-time (typical registration sequence: F/W/S/F/W/S/F/W)

Time Limit

4 years full-time

Combined Degree Program: Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information

For full details, see the Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Digital Enterprise Management (Specialist),

Honours Bachelor of Arts / Master of Information

For full details, see the Digital Enterprise Management (Specialist), Honours Bachelor of Arts / Master of Information entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Interactive Digital Media(Specialist), Honours Bachelor of Arts / Master of Information

For full details, see the Interactive Digital Media (Specialist), Honours Bachelor of Arts / Master of Information entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Law, Juris Doctor / Master of Information

For full details, see the Law, Juris Doctor / Master of Information entry in the Combined Degree Programs section of this calendar.

Diploma Program

Graduate Diploma of Advanced Study in Information Studies

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Information's additional admission requirements stated below.
- 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 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 the Graduate Coordinator (FI). Complete details are available on the Information website.

Program Requirements

4.0 full-course equivalents (FCEs) (24 credit hours) as follows:

- At least 3.0 FCEs (six half courses) of these courses must be chosen from courses offered in the MI degree program.
- Only 0.5 FCE (one half course) may be a reading course.
- Up to 1.0 FCE (two half courses) may be taken in other departments.

Program Length

2 sessions full-time; 4 sessions part-time

Time Limit

2 years full-time; 3 years part-time

Course List

Not all courses are offered every year. Consult the Faculty of Information website for the annual course offerings; course descriptions; and 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	Knowledge Organization
INF 1325H	Online Information Retrieval
INF 1330H	Archives Concepts and Issues
INF 1331H	Archival Arrangement and Description
INF 1340H	Introduction to Information Systems
INF 1341H	Systems Analysis and Process Innovation
INF 1342H	System Requirements and Architectural Design
INF 1343H	Data Modeling and Database Design
INF 1501H	Culture and Technology I
INF 1502H	Culture and Technology II (prerequisite: INF 1501H Culture and Technology I)
INF 1601Y	KMD Capstone Project (CR/NCR) (prerequisite: KMD 1001, KMD 1002, KMD 2001, INF 2040, or equivalent)
INF 2010H	Reading Course
INF 2011H	Reading Course

Degree and Diploma Programs by Graduate Unit

INF 2020H	Ethnographic Field Methods for Exploratory Research
INF 2040H	Project Management
INF 2102H	Geographic Information Systems (GIS) in Libraries
INF 2103H	Diplomatics and Genre Theory: Understanding Forms and Functions of Traditional and Contemporary Records
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 2122H	Digital Preservation and Curation (prerequisite: INF 2175H or INF2186H)
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 2129H	Graphic Novels and Comic Books in the Library
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 2141H	Children's Cultural Texts and Artifacts
INF 2143H	Issues in Children's and Young Adults' Services
INF 2145H	Creation and Organization of Bibliographic Records
INF 2149H	Administrative Decision-Making in Information Organizations

Degree and Diploma Programs by Graduate Unit

INF 2150H	Legal Issues in Archives
INF 2152H	Advocacy and Library Issues
INF 2155H	The Public Library in the Community: Developing a Critical Practice
INF 2156H	Reading and the Reading Public in North America and Around the World
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 2169H	User-Centred Information Systems Development
INF 2170H	Information Architecture
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-Keepering
INF 2175H	Managing Organizational Records I
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	Advanced Arrangement and Description: Archival Representational Practices
INF 2189H	Managing Organizational Records II: Digital Environments

INF 2190H	Data Analytics: Introduction, Methods and Practical Approaches
INF 2194Y	Information Systems Design Project
INF 2195H	Special Topics in Information Studies
INF 2196H	Special Topics in Information Studies
INF 2197H	Special Topics in Information Studies
INF 2198H	Special Topics in Information Studies
INF 2199H	Special Topics in Information Studies
INF 2221H	Digital Divides and Information Professionals: Developing a Critical Practice
INF 2225H	Digital Discourse
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 2243H	Critical Histories of Information and Communication Technologies
INF 2300H	Special Topics in Information Studies
INF 2301H	Special Topics in Information Studies
INF 2302H	Special Topics in Information Studies
INF 2303H	Special Topics in Information Studies
INF 2304H	Special Topics in Information Studies
INF 2305H	Special Topics in Information Studies
INF 2306H	Special Topics in Information Studies
INF 2307H	Special Topics in Information Studies
INF 2308H	Special Topics in Information Studies
INF 2309H	Special Topics in Information Studies
INF 2310H	Special Topics in Information Studies
INF 2311H	Managing Audiovisual Materials
INF 2312H	Art Librarianship: Theory Informs Practice
INF 2313H	Introduction to Service Science
INF 2320H	Remix Culture
INF 2325H	Launching Information Ventures
INF 2330H	Information Ethnography
INF 2331H	The Future of the Book
INF 2332H	Information Behaviour

Information Studies

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Information's additional admission requirements stated below.
- 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.
- Applicants whose first language is not English should consult the English-Language Proficiency 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

Degree and Diploma Programs by Graduate Unit

- 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 fulfil 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.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Course List

INF 3001H	Research in Information: Foundation
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
INF 3015H	Reading Course

Museum Studies

Master of Museum Studies

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Application deadlines are available on the Faculty of Information website. Applicants must also satisfy the Faculty's additional admission requirements stated below.
- An appropriate bachelor's degree with an overall average grade of at least B+ from a recognized university.

Degree and Diploma Programs by Graduate Unit

- 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 (MMSt) 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 7.5 full-course equivalents (FCEs) including five required half courses (2.5 FCEs) and either one required full course (1.0 FCE) and eight additional courses (4.0 FCEs), of which 2.0 FCEs must be internal (Museum Studies) elective courses; or the thesis option.
- 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 five required half courses (2.5 FCEs), a research methods course (0.5 FCE) appropriate to their program of study with a final grade of at least A-, a thesis (2.0 FCEs), and five additional courses (2.5 FCEs), of which up to four graduate half courses (2.0 FCEs) may be 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%.

Program Length

4 sessions (2 years) full-time (typical registration sequence: F/W/F/W)

Time Limit

3 years full-time

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 program length required to complete both degrees in the CRO is three years.
- Students in the CRO must complete a total of 13.0 FCEs (26 half courses) as follows:
 - For students who choose the concentration pathway to fulfil the MI degree requirements:
 - 0.5 core full-course equivalents (FCEs) (INF 1005/1006H) in the MI program, counted towards the MI degree;
 - 2.5 required FCEs identified for the chosen concentration, counted towards the MI degree;
 - 2.0 FCEs in required courses in the MMSt program, counted towards the MMSt degree;
 - at least 2.0 FCEs in elective courses in the MI program, to be counted towards the MI degree;
 - at least 3.0 FCEs in elective courses in the MMSt program, to be counted towards the MMSt degree;
 - an additional 3.0 FCEs in elective courses chosen from the MI program, the MMSt program, or from other programs (maximum 2.0 FCEs from other programs), to be counted towards both the MI and the MMSt degree.
 - For students who choose the general program pathway to fulfil the MI requirements:
 - 2.0 core FCEs (INF 1001H, INF 1002H, INF 1003H, INF 1005/1006H) in the MI program, counted towards the MI degree;
 - 3.5 FCEs in required courses in the MMSt program, counted towards the MMSt degree;
 - at least 3.0 FCEs in elective courses in the MI program, to be counted towards the MI degree;
 - at least 1.5 FCEs in elective courses in the MMSt program, to be counted towards the MMSt degree;
 - an additional 3.0 FCEs in elective courses chosen from the MI program, the MMSt program, or from other programs (maximum 2.0 FCEs from other programs), to be counted towards both the MI and the MMSt degree.
- Path to completion—Students complete Year 1 in one of the programs (taking all of the core/required courses); Year 2 in the other program (again taking all of the core courses); and Year 3 taking courses from both programs to complete the requirements. It does not matter which program is taken first, MI or MMSt.

- Registration in a CRO may affect eligibility for external and internal graduate awards and bursaries.

Program Length

8 sessions full-time (typical registration sequence: F/W/S/F/W/S/F/W)

Time Limit

4 years full-time

Course List

Not all courses are offered every year. Please consult the Museum Studies website for course availability. The minimum requirement for the MMSt degree is 7.5 full-course equivalents (FCEs).

MMSt Required Courses

(3.5 FCEs)

MSL 1150H	Collection Management
MSL 1230H	Ethics, Leadership, Management
MSL 2331H	Exhibitions, Interpretation, Communication
MSL 2370H	Museums and Cultural Heritage I: Context and Critical Issues
<i>either</i> MSL 2350H <i>or</i> INF 2040H	Museum Planning and Management Projects, Fundraising and Human Resources Project Management
<i>either</i> MSL 4000Y <i>or</i> Thesis option	Exhibition Project

MMSt Elective Courses

Internal (Museum Studies) Elective Courses

MSL 1100H	Museology and Theory
MSL 1300H	Contemporary Theories of Art and Culture
MSL 1350H	Museums and their Publics
MSL 2000H	Curatorial Practice
MSL 2050H	Curating Science
MSL 2100H	Museum Environment
MSL 2115H	Global Cultures and Museums
MSL 2240H	The Photographic Record
MSL 2325H	Museums and New Media Practice
MSL 2330H	Interpretation and Meaning-Making in Cultural Institutions
MSL 2332H	Public Programs and Education
MSL 2340H	Issues in Cultural Policy and Contemporary Culture

Degree and Diploma Programs by Graduate Unit

MSL 2360H	Museums and Indigenous Communities: Changing Relationships, Changing Practice
MSL 2371H	Museums and Cultural Heritage II: Society, Responsibility, and Cultural Change
MSL 2500H	Constructing and Curating Digital Heritage
MSL 3000Y	Internship
MSL 5050H	Special Studies

External Elective Courses

Courses relevant to the Museum Studies program and student interests are available on the Faculty of Information website.

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
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

Becker, Christoph - BSc, MSc, DSc
 Boase, Jeffrey - BA, MA, PhD
 Caidi, Nadia - PhD
 Castle, Christine - PhD
 Chignell, Mark - BSc, PhD
 Choo, Chun Wei - BA, MSc, PhD
 Dilevko, Juris - MLIS, MA, PhD, PhD
 Duff, Wendy - BA, BA, MLS, PhD
 Galey, Alan - PhD
 Hartel, Jenna - PhD
 Howarth, Lynne - BA, MLS, PhD
 Lyons, Kelly - BSc, MSc, PhD
 MacNeil, Heather - PhD
 Mihalache, Irina - BA, MA, PhD
 Munteanu, Cosmin - MSc, MASc, PhD
 Phillips, David - PhD

Degree and Diploma Programs by Graduate Unit

Ratto, Matthew - PhD
Ross, Seamus - BA, MA, DPhil (**Dean**)
Shade, Leslie - BA, MLIS, PhD
Smith, Brian Cantwell - BS, MS, PhD
Soren, Barbara - BPHE, BEd, PhD
Stanbridge, Alan - BSc, AM, DA
Stevenson, Siobhan - PhD
Yu, Eric - BSc, MMath, PhD

Members Emeriti

Cherry, Joan - BSc, MLS, PhD
Clement, Andrew - BSc, MSc, PhD
Craig, Barbara - AM, PhD
De Kerckhove, Derrick - BA, MA, PhD
Fleming, E Patricia - BA, BLS, MLS
Teather, Lynne - BA, MA, PhD
Williamson, Nancy - BA, BLS, MLS

Associate Members

Burchell, Kenzie - BA, MSA, PhD
Carding, Janet - MA
Cohen, Nicole - BA, MA, PhD
Gibson, Twyla - PhD
Ilerbaig-Adell, Juan - PhD
Kim, Yunhyong - PhD
McCaffrey, Michael - MLS
McEwen, Rhonda - PhD
McLaughlin, Hooley - BA, MS, PhD
Sim, Susan - MSc, PhD
Takhteyev, Yuri - PhD

Italian Studies

Faculty Affiliation

Arts and Science

Degree Programs

Italian Studies

MA	<i>Field:</i> Italian Literature
PhD	<i>Fields:</i> 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: <http://italianstudies.utoronto.ca/>
 Email: italian.grad@utoronto.ca
 Telephone: (416) 926-2346
 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 admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Italian Studies' additional admission 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 to eighteenth centuries, nineteenth to 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
 15 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. Applicants must also satisfy the Department of Italian Studies' additional admission requirements stated below.
- 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. Please

Degree and Diploma Programs by Graduate Unit

note that an A- average does not guarantee admission to the program.

- 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.
- Notes:
 - Applicants with an Italian *laurea magistrale/ specialistica* may apply for admission to the PhD program.
 - Applicants with a degree equivalent to a PhD (e.g., an Italian *dottorato di ricerca*, a PhD, a *diploma di perfezionamento*, etc.) cannot be accepted to the PhD program.

Program Requirements

- Students entering with an MA degree will normally complete 4.0 graduate full-course equivalents (FCEs). In consultation with the Graduate Coordinator, PhD students must take one extra-departmental course (0.5 FCE) during Year 1 of the program. Students must also complete ITA 1000H *Methodologies for the Teaching and Study of Italian* (0.5 FCE); 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 one other language approved by the department.
- Please note that 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. In consultation with the Graduate Coordinator, PhD students must take one extra-departmental course (0.5 FCE).
- 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.

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	Colloquia and Professional Development (Credit/No Credit)
ITA 1025H	Old Italian
ITA 1026H	Italian Dialectology
ITA 1029H	History of Italian Religious Language
ITA 1030H	Italian Lexicography
ITA 1031H	History of Italian Language in North America
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 1235H	Topics in Italian Studies
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 1551H	Sixteenth-Century Italian Tragedy
ITA 1552H	Pietro Aretino and the Italian Renaissance
ITA 1555H	Literature and Society in Renaissance Italy
ITA 1565H	Tasso
ITA 1591H	Baroque Poetics and Poetry
ITA 1597H	The Commedia dell'Arte
ITA 1601H	Vico
ITA 1605H	Theories of the Stage and Dramatic Criticism

Degree and Diploma Programs by Graduate Unit

ITA 1610H	Seventeenth and Eighteenth-Century Theatre
ITA 1645H	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 1735H	Topics in Italian Studies I
ITA 1736H	Topics in Italian Studies II
ITA 1755H	Italian Modernism
ITA 1760H	Futurism
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
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
MST 3162H	Boccaccio and Chaucer

Pietropaolo, Domenico - BSc, MA, PhD
 Robins, William - BA, MPH, PhD
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Somigli, Luca - PhD
 Terpstra, Nicholas - BA, MA, PhD

Members Emeriti

Capozzi, Rocco - BA, MA, PhD
 Pugliese, Olga - BA, MA, PhD

Associate Members

Brilli, Elisa - MA, PhD
 Zambenedetti, Alberto - PhD
 Zhang, Gaoheng - PhD

Graduate Faculty

Full Members

Bancheri, Salvatore - BA, MA, PhD (**Chair and Graduate Chair**)
 Eisenbichler, Konrad - BA, MA, PhD
 Guardiani, Francesco - MA, PhD
 Lettieri, Michael - BA, MA, PhD
 Pierno, Franco - BA, MA, PhD

Laboratory Medicine and Pathobiology

Faculty Affiliation

Medicine

Degree Programs

Laboratory Medicine and Pathobiology

MSc

PhD

Combined Degree Program

Combined Degree Program: MD / 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. **Musculoskeletal Sciences**
 - Laboratory Medicine and Pathobiology, MSc, PhD
7. **Neuroscience**
 - Laboratory Medicine and Pathobiology, MSc, PhD
8. **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 the **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.

Contact and Address

Admission

Web: www.lmp.utoronto.ca
Email: r.ponda@utoronto.ca
Telephone: (416) 978-2550
Fax: (416) 978-7361

Program

Web: www.lmp.utoronto.ca
Email: ferzeen.sammy@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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Laboratory Medicine and Pathobiology's additional admission requirements stated below.
- 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 (CV).
- 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.

Degree and Diploma Programs by Graduate Unit

- 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.

Program Length

5 sessions (2 years) full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Laboratory Medicine and Pathobiology's additional admission requirements stated below.
- Two routes of entry are available:
 1. **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.
 2. **Track B:** MSc graduates and applicants with an 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 (CV).
- 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

Degree and Diploma Programs by Graduate Unit

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 examination 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 towards 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.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Course List

Not all courses are offered every year. Please check the departmental website 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

Degree and Diploma Programs by Graduate Unit

LMP 1019H	Research Techniques in Molecular Biology and Pathobiology
LMP 1020H	Inflammation, Immunity, and Immunopathology of Atherosclerosis
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 1525H	The Role of Genomics in the Era of Personalized Medicine
LMP 1530H	Next Generation Genomics in Clinical Medicine
LMP 2115H	Selected Topics in Medical Microbiology
LMP 2120H	Molecular Clinical Microbiology and Infectious Diseases
RST 9999Y	Research Project (Credit/No Credit)

Graduate Faculty

Full Members

Abdelhaleem, Mohamed - MSc, PhD
 Adeli, Khosrow - DipChem, MSc, PhD
 Alman, Benjamin - BSc, MD
 Andrulis, Irene - BA, PhD
 Asa, Sylvia - MD
 Aubert, Isabelle - BSc, PhD
 Bapat, Bharati - BSc, MSc, PhD
 Barber, Dwayne - BSc, PhD
 Bartlett, John M.S. - 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
 Buchan, Alison - BSc, MSc, PhD
 Cole, David - BSc, MD, PhD
 Connelly, Philip - BA, PhD
 Crowcroft, Natasha - BA, MA, MSc, MBBS, PhD
 Cutz, Ernest - MD
 Cybulsky, Myron - MD
 Dennis, James - PhD
 Diamandis, Eleftherios - BSc, MD, PhD
 Dirks, Peter - MD, PhD
 Dittakavi, Sarma - BSc, MSc, PhD
 Done, Susan - BA, MA, MBA, BCh, MB, PhD
 Drucker, Daniel - MD
 Elsholtz, Harry - BSc, MSc, PhD (**Coordinator of Graduate Studies**)
 Fish, Jason - BSc, PhD
 Gallinger, Steven - MSc, MD
 Gilbert, Richard - MBBS, PhD
 Girardin, Stephen - BSc, PhD
 Gotlieb, Avrum - BSc, MDCM
 Grynepas, Marc - MSc, PhD
 Gupta, Neeru - 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
 Hu, Jim - BSc, PhD
 Huang, Annie - MD
 Husain, Mansoor - MB, MD
 Hwang, David - BSc, MD, PhD
 Irwin, David - BSc, PhD
 Irwin, Meredith - MD
 Jamieson, Frances - MD
 Jin, Tianru - PhD
 Joshi-Sukhwil, Sadhna - BSc, MSc, PhD, DSc
 Jothy, Serge - MSc, MD, PhD
 Kain, Kevin - MD
 Kamel-Reid, Suzanne - BA, MA, PhD
 Kandel, Rita - MD
 Keeley, Frederick - BSc, PhD
 Khokha, Rama - BSc, MSc, PhD
 Lazarus, Alan - PhD
 Lee, Warren - MD, PhD
 Levy, Gary - BSc, MD
 Lingwood, Clifford - BSc, PhD
 Mahuran, Don - BA, PhD
 Marsden, Philip - MD
 Mazzulli, Tony - MD
 McCulloch, Christopher - BSc, DDS, PhD
 McGeer, Allison - BSc, MSc, MD
 McKerlie, Colin - DVSM, DVM
 McLaurin, Joanne - BSc, MSc, PhD
 Mekhail, Karim - BSc, PhD
 Mogridge, Jeremy - BSc, PhD
 Ni, Heyu - MSc, MD, PhD

Degree and Diploma Programs by Graduate Unit

O'Brien, Catherine - BSc, MSc, DrMed, PhD
Ohh, Michael - BSc, PhD
Opas, Michal - MSc, PhD
Ostrowski, Mario - MD
Palaniyar, Nades - MSc, PhD
Post, Martin - PhD
Pritzker, Kenneth - BSc, MD
Prud'homme, Gerald - MD
Rajalakshmi, Srinivasan - BSc, MA, PhD
Rand, Margaret - BSc, PhD
Reis, Marciano - MD
Richardson, Susan - BSc, MDCM
Robertson, Janice - BSc, PhD
Rosenblum, Norman - MD
Rozakis-Adcock, Maria - BSc, PhD
Rutka, James - BSc, LMCC, MD, PhD
Schmitt-Ulms, Gerold - BSc, MSc, DrRerNat
Semple, John Wesley - PhD
Seth, Arun - MS, PhD
Shaw, Patricia - SB, MD
Sherman, Philip - MD
Sivak, Jeremy - PhD
Strauss, Bradley - MD
Swallow, Carol - BA, MD, PhD
Taylor, Michael - BSc, DrMed, PhD
Templeton, Douglas - BSc, MD, PhD
Tenenbaum, Howard - DipPerio, DDS, PhD
Thorner, Paul - MD, DPhil
Tsao, Ming-Sound - BSc, MD
van der Kwast, Theodorus - MD, PhD
Wallace, Valerie - BSc, PhD
Wang, Chen - MD, PhD
Wilson, Gregory - MSc, MD
Wong, Pui-Yuen - BSc, PhD
Yang, Burton - BSc, MSc, PhD
Yeger, Herman - BSc, MScPhm, PhD
Yousef, George - MSc, MD, PhD
Yucel, Yeni - MD
Zacksenhaus, Eldad - PhD
Zhang, Li - MSc, MD, PhD

Drabovich, Andrei - MS, PhD
Fittipaldi, Nahuel Vicente - BS, MS, PhD
Gubbay, Jonathan B. - BSc, MSc, MBBS
Hazrati, Lili-Naz - BSc, MSc, MD, PhD
Kalia, Lorraine - BSc, MD, PhD
Keating, Sarah - MSc, MD
Kingdom, John - DipCH, MB, MD
Kulasingam, Vathany - BSc, PhD
Lerner-Ellis, Jordan - BS, PhD
Li, Ren-Ke - MHSc, MSc, MD, PhD
Licht, Christoph - MD
Melano, Roberto - MSc, PhD
Mete, Ozgur - MD
Moraes, Theo - MD
Mubareka, Samira - MD
Munoz, David - MSc, MD
Ng, Dominic - MD
Pasic, Maria - BS, PhD
Pollanen, Michael - BSc, MD, PhD
Riddell, Robert - LMCC, LRCP, MBBS
Robbins, Clinton Shane - BS, PhD
Romaschin, Alexander - DipChem, BSc, PhD
Shlien, Adam - BS, PhD
Simor, Andrew - MD
Somers, Gino - MBBS, BMedSc, PhD
Stockley, Tracy - BSc, PhD
Sung, Hoon-Ki - MS, MD, PhD
Tein, Ingrid - MD
Waters, Valerie - MD
Yuen, Darren - BSc, MD, PhD

Members Emeriti

Johnston, Miles - BSc, PhD
Marks, Alexander - MD, PhD
Minta, Joe - BSc, MBA, MSc, PhD
Shek, Pang - BSc, MSc, PhD

Associate Members

Berman, Hal K. - MD, PhD
Blasutig, Ivan M. - BSc, PhD
Boyd, Shelley - BM
Callum, Jeannie - BA, MD
Chang, Hong - MSc, MD, PhD
Charames, George - BS, MS, PhD
Clarke, Blaise - MBCHB
Das, Sunit - DrMed
Delabie, Jan - MD, PhD
Dos Santos, Claudia - MSc, MD

Law

Faculty Affiliation

Law

Degree Programs

Law

LLM

Concentrations:

Business Law

Criminal Law

Health Law, Ethics, and Policy

Legal Theory

MSL

SJD

Global Professional Law

GPLLM

Collaborative Programs

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

1. **Bioethics**
 - Law, LLM, SJD
2. **Global Health**
 - Law, SJD
3. **Sexual Diversity Studies**
 - Law, LLM, MSL, SJD
4. **Women and Gender Studies**
 - Law, LLM, 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 either a shorter or longer thesis) or coursework-only. The longer thesis option is for law students who have demonstrated a strong potential for advanced research and writing in a common law system. The shorter thesis option and coursework-only formats are for law students who wish to specialize in a specific area of law or explore common law at an advanced level.

Within the LLM program, students also have the option of applying to pursue one of four areas of concentration:

- an LLM with a Concentration in Business Law;
- an LLM with a Concentration in Criminal Law;

Degree and Diploma Programs by Graduate Unit

- an LLM with a Concentration in Health Law, Ethics, and Policy; and
- an LLM with a Concentration in Legal Theory.

Students accepted into a concentration will receive a designation on their transcript. The number of places available for students in each of the areas of concentration will be limited, and acceptance into the concentrations will be on a competitive basis.

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. An interactive eLearning option may also be offered in this program to students outside of the Greater Toronto Area (see details below).

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.

Inquiries 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

Faculty of Law

University of Toronto

78 Queen's Park

Toronto, Ontario M5S 2C5

Canada

Degree Programs

Law

Master of Laws (LLM)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Law's additional admission requirements stated below.
- Bachelor of Laws or Juris Doctor degree from a recognized university, or possess equivalent qualifications, with demonstrated proficiency in the study of law. A minimum B+ average is required.

Degree and Diploma Programs by Graduate Unit

- 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 Test of Written English (TWE)
 - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections

No offers of admission conditional upon successful completion of an English language test will be offered.

- Students applying to one of the four areas of concentration must also submit a 500-word statement addressing the applicant's interest in the area of concentration. Applicants must substantiate their interest in and suitability for the particular area of concentration through this statement, their letters of reference, and a research proposal (for those students intending to write a thesis). Students may only apply to one of the areas of concentration. Students not admitted into one of the concentrations may nonetheless be admitted into the LLM program without a concentration.

Program Requirements

Master of Laws (No Concentration)

- **Thesis option:** a course of studies, and a thesis which, combined, are valued at 24 credit hours (equivalent to 6.0 full-course equivalents [FCEs]). For these students, the course of studies shall involve a minimum of 8 credit hours (equivalent to 2.0 FCEs) of coursework and a maximum of 20 credit hours (equivalent to 5.0 FCEs) of coursework. The thesis shall involve a minimum of 4 credit hours, equivalent to 1.0 FCE, (in which case the thesis will generally be expected to be 50 to 60 pages double-spaced, approximately 15,000 to 18,000 words) and a maximum of 16 credit hours, equivalent to 4.0 FCEs, (in which case the thesis will generally be expected to be between 100 and 150 pages double-spaced, approximately 30,000 to 45,000 words).
- **Coursework-only option:** a course of studies valued at 28 credit hours (equivalent to 7.0 FCEs). In addition, students pursuing this option must designate one course as their designated writing requirement course. Only courses requiring one or more written assignments of at least 3,500 words (combined) will qualify as designated writing requirement courses (not including LAW 245Y or LAW 535H).
- Mandatory graduate seminar for all students in the LLM program, whether or not they are writing a thesis: LAW 245Y *Alternative Approaches to Legal Scholarship*.

Master of Laws (With a Concentration)

- Students accepted into one of the four concentrations (Concentration in Business Law, Concentration in Criminal Law, Concentration in Health Law, Ethics, and Policy, Concentration in Legal Theory) may undertake the coursework-only option, or prepare a thesis.
- For the coursework-only option, the total number of credits will be 28 credit hours, and one of the courses must be a designated writing requirement course in the area of concentration. Only courses requiring one or more written assignments of at least 3,500 words (combined) will qualify as designated writing requirement courses (not including LAW 245Y or LAW 535H). At least 12 of the credits must be completed from a list of courses in the area of concentration which will be provided annually on the program website.
- **Thesis option:** the total number of credits to be completed in the program, through a combination of a course of studies and the thesis, is 24. The thesis shall involve a minimum of 4 credit hours (as outlined above), and a maximum of 16 credit hours, and must be in the area of concentration.
- For students completing a 4-credit thesis and pursuing a concentration, at least 8 credits of coursework must be taken from a list of courses in the area of concentration, which will be provided annually on the program website. The remaining required credits can be taken through courses either within or outside the area of concentration.
- For students completing a 16-credit thesis and pursuing a concentration, the thesis must be in the area of concentration. In addition, at least 2 course credits must be completed from a list of courses in the area of concentration, which will be provided annually on the program website. The remaining credits can be taken through courses either within or outside the area of concentration.
- Students pursuing the concentration in Legal Theory must complete the mandatory 3-credit course LAW 4018H Foundations of Legal Theory. This course will count towards the credits required for the area of concentration.
- Mandatory graduate seminar for all students in the LLM program, whether or not they are writing a thesis or pursuing a concentration: LAW 245Y *Alternative Approaches to Legal Scholarship*.

Further Information About the Master of Laws Program

- All coursework and the thesis shall be graded using the graduate grading scale as outlined in the University Assessment and Grading Practices Policy.
- In determining the composition of the course of studies and the weight to be given to a thesis, the Faculty of Law will endeavour to structure a program 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, for those writing a thesis, the coursework requirements must be completed by May 31 of the academic year of attendance; the thesis must be completed by August 31 of the academic year of attendance.
- For those not writing a thesis, the coursework requirements for all courses apart from the designated writing requirement course must be completed by May 31 of the academic year of attendance; the writing requirement must be fulfilled 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; the thesis must be completed by August 31 of the second academic year of attendance.
- For those pursuing the coursework-only option on a part-time basis, the writing requirement must be fulfilled by August 31 of the second academic year, with all other course assignments being due by May 31 of the second academic year. Continuation in the second year of the part-time LLM program is subject to the Faculty of Law's determination that the student has made satisfactory progress in the first year of the part-time LLM studies.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Course List

LAW 245Y Alternative Approaches to Legal Scholarship

Master of Studies in Law (MSL)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Law's additional admission requirements stated below.
- 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.

Degree and Diploma Programs by Graduate Unit

- 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 Test of Written English (TWE)
 - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections

No offers of admission conditional upon successful completion of an English language test will be offered.

Program Requirements

- The student must pursue a course of studies approved by the Faculty. The course of studies will comprise at least 28, and not more than 32, course hours and will include at least three 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Course List

LAW 245Y Alternative Approaches to Legal Scholarship

Doctor of Juridical Science (SJD)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Law's additional admission requirements stated below.
- 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.

Degree and Diploma Programs by Graduate Unit

- 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 Test of Written English (TWE)
 - Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections

No offers of admission conditional upon successful completion of an English language test will 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 of Law, 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 eight 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 of Law, 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.

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*

Course List

Courses are listed by graduate identifier alongside the equivalent undergraduate identifier.

Graduate	Under-graduate	Title
LAW 1000H	LAW 245H	Alternative Approaches to Legal Scholarship
LAW 1001Y	LAW 101H	First Year: Contracts Law
LAW 1002Y	LAW 101Y	Contracts
LAW 1003Y	LAW 102H	First Year: Criminal Law
LAW 1004Y	LAW 102Y	Criminal Law
LAW 1005Y	LAW 103H	First Year: Property Law
LAW 1006Y	LAW 103Y	Property
LAW 1007Y	LAW 104H	First Year: Torts Law
LAW 1008Y	LAW 104Y	Torts
LAW 1009Y	LAW 106H	First Year: Constitutional Law
LAW 1010Y	LAW 106Y	Constitutional Law
LAW 1011Y	LAW 104Y	First Year: Constitutional Law
LAW 2001H	LAW 317H	Advanced Contracts: The Law of Contractual Interpretation
LAW 2002H	LAW 229H	Advanced Corporate Law and Securities Regulation
LAW 2003H	LAW 204H	Advanced Labour Law: Bargaining Rights and Following Rights in a Global Economy
LAW 2005H	LAW 300H	The Art of the Deal
LAW 2007H	LAW 408H	Bankruptcy Law
LAW 2008H	LAW 212H	Business Organizations
LAW 2009Y	LAW 284H	Canadian Income Tax Law

Degree and Diploma Programs by Graduate Unit

LAW 2010H	LAW 462H	Class Action Law
LAW 2011H	LAW 269H	Climate Change Law
LAW 2013H	LAW 579H	Competition Law and Intellectual Property
LAW 2014H	LAW 312H	Competition Policy
LAW 2015H	LAW 326H	Contested Corporate Transactions
LAW 2017Y	LAW 310H	Corporate Income Tax
LAW 2018H	LAW 530H	Corporate Transactions
LAW 2019H	LAW 288H	Corporations, Individuals, and the State
LAW 2020H	LAW 450H	Digital Content and the Creative Economy
LAW 2021H	LAW 330H	Economic and Social Regulation
LAW 2022H	LAW 255H	Entertainment Law
LAW 2023H	LAW 239H	Environmental Law
LAW 2024Y	LAW 241H	Evidence
LAW 2026H	LAW 499H	Franchise and Distribution Law
LAW 2027H	LAW 306H	From Blueprints to Buildings: Legal Issues in the Construction Industry
LAW 2029H	LAW 556H	Governing Governance: Legal Institutions and Corporate Performance in Comparative Perspective
LAW 2033H	LAW 721H	Intensive: Key Concepts in Trademark Law
LAW 2035H	LAW 513H	International Commercial and Investor-State Arbitration

Degree and Diploma Programs by Graduate Unit

LAW 2036H	LAW 235H	International Investment Law
LAW 2037H	LAW 349H	International Taxation
LAW 2038H	LAW 285H	International Trade Regulation
LAW 2039H	LAW 278H	Investment and Growth in Emerging Markets
LAW 2040Y	LAW 263H	Labour and Employment Law
LAW 2042H	LAW 292H	Law of Good Governance and Ethics in Government and Business
LAW 2044H	LAW 701H	Legal History of Money
LAW 2045H	LAW 515H	Natural Resources and Energy Law
LAW 2046H	LAW 272H	Negotiation
LAW 2047H	LAW 332H	Patent and Trade Secrets Law
LAW 2048H	LAW 356H	New Directions in Energy Regulation
LAW 2049H	LAW 220H	Principle and Policy in Contract Law
LAW 2051H	LAW 275H	Real Estate Law
LAW 2053Y	LAW 318H	Secured Transactions
LAW 2054H	LAW 415H	Securities Law in Adversarial Setting
LAW 2055H	LAW 227H	The Supreme Court of Canada: A Unique and Comprehensive View
LAW 2056H	LAW 468H	Shareholder Activism
LAW 2057H	LAW 563H	Sustainability and Corporate Social Responsibility
LAW 2059H	LAW 216H	Venture Capital Financing

LAW 2060H	LAW 365Y	Workshop: Innovation Law and Policy
LAW 2061H	LAW 702H	Intensive Course: Corporations, Individuals, and the State
LAW 2062H	LAW 530H	Applied Corporate Law
LAW 2063H	LAW 426H	Banking, Negotiable Instruments, and Payment Mechanisms
LAW 2064H	LAW 415H	Fundamental Themes in Securities Litigation Practice
LAW 2065H	LAW 583H	Innovation, Intellectual Property, and the Internet
LAW 2066H	LAW 371H	Law of International Business and Finance Transactions
LAW 2067H	LAW 356H	Powering the Green Economy: New Directions in Energy Regulation
LAW 2068H	LAW 278H	The Private Sector in Economic Development
LAW 2069H	OSG 249H	Regulation of Financial Institutions
LAW 2070Y	LAW 384H	Intellectual Property: Copyright, Trademark, and Patent
LAW 2085Y	LAW 233H	Trusts
LAW 3001H	LAW 477H	Aboriginal Peoples and Canadian Criminal Justice

LAW 3002H	LAW 478H	Aboriginal Peoples and Canadian Criminal Justice Practicum
LAW 3003H	LAW 541H	Advanced Constitutional Law: Comparative Remedial and Security Issues
LAW 3004H	LAW 270H	Advanced Criminal Evidence
LAW 3005H	LAW 413H	Advanced Criminal Procedure and Charter Issues
LAW 3007H	LAW 557H	Comparative Anti-terrorism and National Security Law
LAW 3008H	LAW 534H	Comparative Criminal Law
LAW 3012H	LAW 564H	Criminal Law Theory
LAW 3013Y	LAW 232H	Criminal Procedure
LAW 3014H	LAW 588H	Criminalization: Use and Abuse
LAW 3015H	LAW 474H	Criminalization in Historical and Theoretical Perspective
LAW 3017H	LAW 325H	Financial Crimes
LAW 3018H	LAW 249H	Forensic Evidence: Science, Medicine, and the Law
LAW 3019H	LAW 509H	History of Crime and Punishment
LAW 3020H	LAW 560H	Homicide
LAW 3021H	LAW 518H	Issues in Criminal Justice
LAW 3023H	LAW 336H	Mentally Disordered Accused
LAW 3025H	LAW 323H	Sentencing and Penal Policy

Degree and Diploma Programs by Graduate Unit

LAW 3026H	LAW 529H	Women, Violence, and the Law
LAW 3027H	LAW 542H	Wrongful Convictions
LAW 3028H	LAW 311H	Youth Criminal Justice
LAW 3029H	LAW 251H	Crime and Punishment: Mandatory Minimums, the Death Penalty, and Other Current Debates
LAW 3030H	LAW 385H	International Criminal Law
LAW 3031H	LAW 219H	Perspectives on Crime and Law
LAW 4001H		Law and Business in a Global Economy
LAW 4002H		Comparative Corporate Governance
LAW 4003H		Securities Regulation and Corporate Finance
LAW 4004H		Mergers and Acquisitions
LAW 4005H		Canadian and Cross-Border Issues in Corporate Tax
LAW 4006H		International Dispute Resolution
LAW 4007H		Canadian Administrative Law
LAW 4008H		Canadian Constitutional Law
LAW 4009H		Canadian Criminal Law
LAW 4010H		Foundations of Canadian Law
LAW 4011H		Law and Policy of Public Private Partnerships

Degree and Diploma Programs by Graduate Unit

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
LAW 4017H		Professional Responsibility
LAW 4018H		Foundations of Legal Theory
LAW 5002H	LAW 230H	Advanced Private Law
LAW 5003H	LAW 358H	Authorship and Copyright: Theory and History
LAW 5004H	LAW 516H	Civil Law
LAW 5005H	LAW 409H	Comparative Constitutional Law and Politics
LAW 5006H	LAW 458H	Comparative Law Theory
LAW 5007H	LAW 322Y	Workshop: Contemporary Problems in Legal Theory
LAW 5008H	LAW 251H	Crime and Punishment
LAW 5011H	LAW 328H	Critical Theory and Global Law: Resisting Economic Globalization
LAW 5012H	LAW 381H	Empirical Studies Seminar
LAW 5014H	LAW 540H	History and Theory of the Common Law
LAW 5017H	LAW 435H	Ethics, Value Pluralism, and International Justice

LAW 5018H	LAW 702H	Property Theory
LAW 5020H	LAW 707H	Trademark Theory
LAW 5021H	LAW 247H	Introduction to Contemporary Legal Theory
LAW 5022H	LAW 361H	Introduction to Islamic Law
LAW 5024H	LAW 372H	Judgement in Law and Politics
LAW 5025H	LAW 213H	Kant's Philosophy of Law
LAW 5026H	LAW 429H	The Law of Democracy
LAW 5027H	LAW 355H	Law and Literature
LAW 5028H	LAW 382H	Law and Multiculturalism
LAW 5029H	LAW 497H	Law, Religion, and Public Discourse
LAW 5030H	LAW 214H	Legal Archaeology: Studies in Cases in Context
LAW 5032H	LAW 342H	Modern Political Trials
LAW 5033H	LAW 210H	Peoples and Minorities in International Law
LAW 5034H	LAW 367H	Political Justice and Liberal Democracy
LAW 5037H	LAW 231H	Religion and the Liberal State: The Case of Islam
LAW 5039H	LAW 277H	Restitution
LAW 5040H	LAW 436H	Rights
LAW 5042H	LAW 207H	Theories of Equality
LAW 5043H	LAW 226H	Theory of Contract Law
LAW 5044H	LAW 368H	Theory of Private Law: Selected Topics and Texts
LAW 5045H	LAW 221Y	Critical Analysis of Law Workshop

LAW 5047H	LAW 399Y	Law and Economics Workshop Seminar
LAW 5048H	LAW 261H	From Patriarchy to Equal Citizenship
LAW 5049H	LAW 540H	History and Theory of International Law
LAW 5050H	LAW 504H	Introduction to Legal Philosophy
LAW 5051H	LAW 354H	Workshop: Legal History Seminar
LAW 5052Y	LAW 282Y	Political Theory of Hegel
LAW 5053H	LAW 322Y	Workshop: Legal Theory
LAW 5054H	LAW 705H	Intensive Course: Constitutional Theory
LAW 5055H	LAW 338H	Intensive Course: Purposive Interpretation in Law
LAW 6001H	LAW 501Y	Contemporary Issues in Health Law and Policy
LAW 6002H	LAW 387H	Governance of Pharmaceuticals in the International Context
LAW 6003Y	LAW 267H	Health Law
LAW 6004H	LAW 726H	Comparative Health Systems Law and Policy
LAW 6005H	LAW 706H	Intellectual Property, Medicine, and Health
LAW 6006H	LAW 388H	Public Health Law
LAW 6007H	LAW 524H	Patent Law for Life Sciences
LAW 6010H	LAW 465H	Scientific Evidence: Its Use and Abuse in Law

Degree and Diploma Programs by Graduate Unit

LAW 6012H	LAW 386H	Reproductive and Sexual Health Law
LAW 6013H	LAW 581H	Law and Policy of Biotechnology
LAW 6015Y	LAW 150H	Administrative Law
LAW 6019H	LAW 545H	Privacy Law
LAW 6020H	LAW 389H	International Intellectual Property Law
LAW 6021H	LAW 301H	Women's Rights in Transnational Law
LAW 6023H	LAW 294H	International Human Rights Law
LAW 6024H	LAW 234H	Human Rights and Global Justice
LAW 6025H	LAW 320H	Law and Policy of Public Private Partnerships
LAW 6026H	LAW 243H	Law, Institutions, and Development
LAW 6029Y	LAW 548H	International Human Rights Clinic
LAW 6030H	LAW 266H	Law of Mental Health
LAW 6031H	OGS 249H	Occupational Health and Safety
LAW 6032H	LAW 726H	Health Systems Law and Policy
LAW 7000Y	LAW 293H	Securities Regulation
LAW 7001H	LAW 199H	Legal Process Professionalism and Ethics
LAW 7002H	LAW 201H	Advanced Civil Procedure
LAW 7003Y	LAW 202H	Administrative Law
LAW 7004H	LAW 203H	Admiralty Law
LAW 7005Y	LAW 205H	Trial Advocacy
LAW 7006H	LAW 206H	Advanced Torts

Degree and Diploma Programs by Graduate Unit

LAW 7007H	LAW 211Y	Tax Law and Policy Workshop
LAW 7008H	LAW 218H	Private International Law
LAW 7009H	LAW 219H	Perspectives on Law
LAW 7010H	LAW 222H	Broadcasting Law and Policy
LAW 7011H	LAW 223H	Telecommunications and Internet Law
LAW 7012H	LAW 224H	Community Planning
LAW 7013H	LAW 225H	International Environmental Law
LAW 7014H	LAW 231H	Advanced Property Law
LAW 7015Y	LAW 237H	Charter Litigation 101
LAW 7016H	LAW 240H	Fiduciary Law
LAW 7017H	LAW 242H	Trusts
LAW 7018Y	LAW 244H	Family Law
LAW 7019H	LAW 250H	Finance and Accounting in Business Law
LAW 7020H	LAW 253H	Introduction to Animal Law
LAW 7021H	LAW 256H	Sports Law
LAW 7022H	LAW 258H	Human Rights as Law, Ethics, and Politics
LAW 7023H	LAW 260H	Public Sector Labour Law
LAW 7024H	LAW 261H	Citizenship: Inside and Out
LAW 7025H	LAW 262H	Citizenship, Immigration, and Globalization
LAW 7026H	LAW 264H	Labour Law Writers Workshop
LAW 7027H	LAW 265H	Introduction to the Legal System of the People's Republic of China

LAW 7028H	LAW 271H	Municipal Plan and Environmental Law
LAW 7029H	LAW 276H	Remedies
LAW 7030H	LAW 281H	Issues in Aboriginal Law and Policy
LAW 7031H	LAW 287H	Legal Ethics and Lawyer Regulation Intensive
LAW 7032H	LAW 295H	Idea to Legislation: Policy and Legislative Change
LAW 7033H	LAW 302H	Perspectives on Civil Litigation, Procedure, and Professionalism
LAW 7034H	LAW 303H	Education Law
LAW 7035H	LAW 307H	Advanced Legal Research, Analysis, and Writing
LAW 7036H	LAW 309H	Foreign Affairs and the Canadian Constitution
LAW 7037H	LAW 316H	Litigation and Social Change
LAW 7038H	LAW 329H	Advanced Family Law: Resolving Family Law Case
LAW 7039H	LAW 331H	Advanced Aboriginal Studies
LAW 7040H	LAW 329H	Constitutional Law of the U.S.
LAW 7041Y	LAW 334H	Feminist Theory
LAW 7042Y	LAW 335H	Clinical Legal Education: Health Equity and Law Clinic
LAW 7043H	LAW 338H	Proportionality, Constitutional Rights, and Their Limitations
LAW 7044H	LAW 340H	Wills and Estate Planning

LAW 7045H	LAW 345Y	Exploring the Intersections of Law and Social Work
LAW 7046H	LAW 346H	Freedom of Expression and Press
LAW 7047H	LAW 351H	Introduction to Law and Development
LAW 7048H	LAW 354H	Canadian Legal History: The Development of Legal Doctrine in Ontario Court of Appeal
LAW 7049H	LAW 362H	Legal Ethics
LAW 7050H	LAW 366H	Comparative Indigenous Law
LAW 7051H	LAW 369H	Media and Defamation Law
LAW 7052Y	LAW 370H	Aboriginal Peoples and Canadian Law
LAW 7053H	LAW 371H	Law of International Business and Finance Transactions
LAW 7054H	LAW 383H	Copyright Law
LAW 7055Y	LAW 384H	Copyright, Trademark, and Patent Law
LAW 7056H	LAW 385H	International Criminal Law
LAW 7057H	LAW 390H	Private Pensions, Public Responsibilities, and Regulation of the Canadian Pension System
LAW 7058H	LAW 395H	Canadian Legal Methods and Writing
LAW 7059H	LAW 407H	Contemporary Problems in Legal Theory
LAW 7060Y	LAW 410H	Discrimination Law
LAW 7061Y	LAW 417H	Children and Families

Degree and Diploma Programs by Graduate Unit

LAW 7062Y	LAW 433H	Constitutional Courts and Constitutional Rights
LAW 7063H	LAW 445H	Statutes and Statutory Interpretation
LAW 7064H	LAW 447H	Adhesion Contracts: The Perils of Clicking "I Agree"
LAW 7065H	LAW 451H	Advanced Advocacy: Problems and Techniques
LAW 7066H	LAW 456H	Canadian Migration Law
LAW 7067H	LAW 463H	Class Actions Practice
LAW 7068H	LAW 466H	Judicial Decision-Making
LAW 7069H	LAW 472H	Internet Law and Governance
LAW 7070H	LAW 483H	Economic Analysis of Law
LAW 7071H	LAW 488H	Youth and the Law
LAW 7072H	LAW 500H	Constitutional Design for Divided Societies: Theory and Cases
LAW 7073H	LAW 505H	Student Scholarship Workshop
LAW 7074H	LAW 522H	Alternative Dispute Resolution in the Legal Environment
LAW 7075H	LAW 525H	Ethics in the Business Law Setting
LAW 7076H	LAW 532H	Refugee Law
LAW 7077H	LAW 535H	Introduction to the Canadian Legal System
LAW 7078H	LAW 547H	Law of Forced Migration

Degree and Diploma Programs by Graduate Unit

LAW 7079H	LAW 554H	Litigation and Dispute Resolution
LAW 7080H	LAW 547H	Clinical Legal Education Connect Legal
LAW 7081H	LAW 578H	Foundations of Legal Theory
LAW 7082H	LAW 585H	International Humanitarian Law (the Law of Armed Conflict)
LAW 7083H	LAW 586H	Law and Globalization Workshop
LAW 7084H	LAW 602H	Capstone Course: Intersection Between Criminal and Family Law: Challenges of Concurrent Proceedings
LAW 7085H	LAW 603H	Capstone Course: the Role of the Judge
LAW 7086H	LAW 703H	Refugee Rights
LAW 7087H	LAW 704H	Practice and Theory of Indigenous Law
LAW 7088H	LAW 705H	Geographies of International Law
LAW 7089H	LAW 708H	Intensive Course: Brecht: A Case Study in Law and Literature
LAW 7090H	LAW 709H	Legal Innovation
LAW 7091H	LAW 712H	Values and Models of Federalism in a Comparative Perspective
LAW 7092H	LAW 717H	Intensive Course: International Intellectual Property and Development
LAW 7093H	LAW 541H	Advanced Constitutional Law

LAW 7094Y	LAW 252H	Public International Law
LAW 8000Y	LAW 8000Y	Thesis
LAW 8001H	LAW 291H	Directed Research Program (Graduate Students Only)
CHL 5704H		International Human Rights Law and Global Health
HAD 5765H		Case Studies in Health Policy
HAD 5768H		International Perspectives on Health Services Management
HAD 5775H		Competition, Cooperation, and Strategy in Health Care
HAD 6762H		Health Services Organization and Management Comprehensive Course
JDM 3619H		Digital Media Distribution
RSM 2120H		Health Policy and Health Care Market

Global Professional Law

Global Professional Master of Laws

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Law's additional admission requirements stated below.
- There are two paths of admission to this program:
 1. 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.
 2. 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.
- Interactive eLearning option: applicants living outside the Greater Toronto Area may apply for the interactive eLearning option at the time of application. Check with the Faculty of Law for option availability.

Program Requirements

The program (evenings and weekends) is available as a regular campus-based program and may be available as an interactive eLearning option (for students living outside the Greater Toronto Area).

- 24 credits (equivalent to 6.0 full-course equivalents [FCEs]), as follows:
 - 18 credits (equivalent to 4.5 FCEs), consisting of six core seminar courses (as set out below) worth 3 credits each. Each 3-credit core seminar course will entail 24 to 36 hours of instruction time.
 - 6 credits (mandatory, equivalent to 1.5 FCEs) consisting of three intensive weekend seminar elective courses (as set out below) worth 2 credits each (equivalent to 0.5 FCE) and entailing 16 hours of instruction. Three seminar elective courses will be chosen from six options as follows: LAW 4011H, LAW 4012H, LAW 4013H, LAW 4014H, LAW 4015H, LAW 4016H. Not all elective courses will necessarily be available every year.
- eLearning option:
 - Students in the eLearning option are required to complete the same FCE requirements as regular program students (see above).
 - Students must have an Internet-enabled computer with a microphone and webcam.
 - Students are required to actively participate in the classroom in real time.
 - Not all of the courses described below will be available via interactive eLearning, and all students are required to attend at least three of the weekend courses in person at the University of Toronto St. George campus (see website for further details).
 - The course requirements include a number of group assignments; students in the eLearning option will complete these together with other students via email and web conferencing on students' own time, using available technologies.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Course List

Weeknight Courses:

The following core course is required:

LAW 4001H Law and Business in a Global Economy

Students must take three of the following **weeknight** core courses:

LAW 4002H Comparative Corporate Governance
LAW 4003H Securities Regulation and Corporate Finance

LAW 4004H Mergers and Acquisitions
LAW 4007H Canadian Administrative Law
LAW 4008H Canadian Constitutional Law
LAW 4009H Canadian Criminal Law

Weekend Courses:

Students must take two of the following four intensive **weekend** core courses (three days):

LAW 4005H Canadian and Cross-Border Issues in Corporate Tax
LAW 4006H International Dispute Resolution
LAW 4010H Foundations of Canadian Law
LAW 4017H Professional Responsibility

Students must take three of the following six intensive **weekend** seminar elective courses (two days). Note that not all elective courses will necessarily be offered every year.

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

Note: All courses are offered in modules. A module will consist of either (a) weeknight courses: an 11- or 12-week unit with a minimum of three contact hours per week, or (b) weekend courses: two- or three-day modules with a minimum of eight contact hours per day. A large portion of the learning for the modules will take place outside of class through carefully designed reading, assignments, projects, and group study.

Graduate Faculty

Full Members

Alarie, Benjamin - LLB, AB, LLM, MA
Anand, Anita - BA, LLB, MA, LLM
Austin, Lisa - BA, BSc, LLB, MA
Benson, Peter - LLB, LLM, PhD
Brudner, Alan S - BA, MA, PhD
Brunnée, Jutta - LLM, SJD

Degree and Diploma Programs by Graduate Unit

Chapman, Bruce - BA, LLB, PhD
Chiao, Vincent - BA, PhD, JD
Choudhry, Sujit - LLB, LLM
Cook, Rebecca - BA, LLB, MA, MPA, JD, SJD
Cossman, Brenda - LLB, LLM
Dawood, Yasmin - BA, MA, JD, PhD
Deweese, Donald - LLB, BScEE, PhD
Drassinower, Abraham - BPhil, LLB, MA, PhD
Dubber, Markus - AB, JD
Duggan, Anthony - BA, LLB, LLM, LLD
Dyzenhaus, David - BA, LLB, DPhil
Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
Fadel, Mohammad - BA, JD, PhD
Fernandez, Angela - LLB, BA, BCL, LLM, MA, SJD
Flood, Colleen - LLB, LLM, SJD
Green, Andrew - LLB, BA, LLM, MA, PhD
Iacobucci, Edward - LLB, MPH (**Dean**)
Katz, Ariel - LLB, LLM, SJD
Katz, Larissa - BA, LLB, LLM, SJD
Knop, Karen - BSc, LLB, LLM, SJD
Langille, Brian A - LLB, BCL, BA
Lee, Ian - LLB, BCom, LLM
Lemmens, Trudo - LLM, DCL
Macintosh, Jeffrey - BSc, LLB, LLM
Macklem, Patrick - BA, LLB, LLM
Macklin, Audrey - BSc, LLB, LLM
Moran, Mayo - BA, LLB, LLM, SJD
Moreau, Sophia - BA, BPhil, PhD, JD
Nedelsky, Jennifer R - BA, MA, PhD
Niblett, Anthony - BCom, PhD
Phillips, James - LLB, MA, PhD
Prado, Mariana - LLB, LLM, SJD (**Associate Dean, Graduate**)
Reaume, Denise - BA, LLB, BCL
Ripstein, Arthur S - BA, MA, LLM, PhD
Rittich, Kerry - BAMus, LLB, SJD
Roach, Kent - BA, LLB, LLM
Rogerson, Carol - BA, LLB, MA, LLM
Satterthwaite, Emily - BEc, LLM, MA, JD
Schneiderman, David - BA, LLB, LLM
Shachar, Ayelet - LLB, BA, LLM, SJD
Shaffer, Martha - LLB, LLM, MAcct
Stacey, Richard - LLB, BA, SJD
Stern, Simon - BA, PhD, JD
Stewart, Hamish - BA, LLB, MA, PhD
Su, Anna - LLM, SJD, JD
Thorburn, Malcolm - BA, MA, LLM, JD, SJD
Trebilcock, Michael - LLB, LLM
Valcke, Catherine - BCL, LLB, LLM, SJD
Valverde, Mariana - BA, MA, PhD, FRSC
Waddams, Stephen - BA, LLB, BA, LLM, PhD, SJD
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, LLB, PhD

Associate Members

Hirschl, Ran - BA, LLB, MA, MPH, PhD, CRC
Regehr, Cheryl - AB, MA, PhD
Sanderson, Douglas - BA, LLM, JD

Leadership, Higher and Adult Education

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Adult Education and Community Development

MA	<i>Field:</i>
MEd	Adult Education and Community Development
PhD	

Educational Leadership and Policy

MA	<i>Field:</i>
MEd	Educational Leadership and Policy
EdD	
PhD	

Higher Education

MA	<i>Field:</i>
	Higher Education
MEd	<i>Fields:</i>
	Health Professional Education
	Higher Education
	Student Development and Student Services in Postsecondary Education
EdD	<i>Field:</i>
	Higher Education
PhD	<i>Field:</i>
	Higher Education

Collaborative Programs

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

- Aboriginal Health**
 - Adult Education and Community Development, MA, MEd, PhD
- Aging, Palliative and Supportive Care Across the Life Course**
 - Adult Education and Community Development, MA, MEd, PhD
- Community Development**
 - Adult Education and Community Development, MA, MEd
- Comparative, International and Development Education**

Degree and Diploma Programs by Graduate Unit

- Adult Education and Community Development, MA, MEd, PhD
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
 - Higher Education, MA, MEd, EdD, PhD
- Educational Policy**
 - Adult Education and Community Development, MA, MEd, PhD
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
 - Higher Education, MA, MEd, EdD, PhD
 - Environmental Studies**
 - Adult Education and Community Development, MA, MEd, PhD
 - Ethnic and Pluralism Studies**
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
 - Sexual Diversity Studies**
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
 - Higher Education, MA, MEd, EdD, PhD
 - Women and Gender Studies**
 - Adult Education and Community Development, MA, MEd, PhD
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
 - Higher Education, MA, MEd, EdD, PhD
 - Workplace Learning and Social Change**
 - Adult Education and Community Development, MA, MEd, PhD

Overview

Scholars in the Department of Leadership, Higher and Adult Education (LHAE) are engaged in a range of theoretical and practical fields: leadership and administration, policy and change, social diversity and community engagement. Themes running through our research and teaching include equity and social justice, professional education, policy studies, educational leadership and organizations, and adult learning within institutions and settings. We develop and organize collaborative programs in support of particular research areas of interest including those in policy, international development education, and workplace learning. This field ties into work at multiple levels, elementary, secondary, and higher education systems of colleges and universities, and extends into larger communities, both locally and internationally.

The Department of Leadership, Higher and Adult Education consists of three graduate programs representing the application of cognate scholarship to domains of practice. All programs offer courses of study leading to Master of Arts, Master of Education, and Doctor of Philosophy degrees. The Educational Leadership and Policy program and the Higher Education program also offer courses of study leading to Doctor of Education degrees. Applications must be made to one of the three programs and to one of the

Degree and Diploma Programs by Graduate Unit

fields offered within each program according to the degree level of interest (see the list at the top of this entry).

For information about application procedures and forms, email the OISE Registrar's Office at gradstudy.oise@utoronto.ca.

For general admission and program requirements, visit www.oise.utoronto.ca/oise/Prospective_Students/Graduate_Studies.html.

Contact and Address

Web: www.oise.utoronto.ca/lhae

Department of Leadership, Higher and Adult Education
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West, 6th and 7th Floors
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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- An appropriate bachelor 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 LHA 1100H *Introduction to Adult Education* or LHA 1102H *Community Development: Innovative Models*, and LHA 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);
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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- 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 LHA 1100H *Introduction to Adult Education* or LHA 1102H *Community Development: Innovative Models*, as well as one research methods course is recommended.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);
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 full-time and flexible-time PhD options.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.

- 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 LHA 3102H *Doctoral Thesis Seminar* in the first session of their program.
- All students must complete 3.0 full-course equivalents (FCEs), of which at least 1.5 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 LHA 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.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Course List

LHA 1100H	Introduction to Adult Education
LHA 1101H	Approaches to Teaching Adults
LHA 1102H	Community Development: Innovative Models
LHA 1103H	Introduction to Research Methods in Adult Education
LHA 1104H	Community Education and Organizing
LHA 1105H	Introduction to Qualitative Research: Part I
LHA 1106H	Introduction to Qualitative Research: Part II
LHA 1107H	Developing and Leading High Performing Teams: Theory and Practice
LHA 1109H	Creative Empowerment Work with the Disenfranchised
LHA 1110H	Approaches to Teaching Adults
LHA 1111H	Working with Survivors of Trauma
LHA 1112H	Narrative as a Vehicle for Personal Change

Degree and Diploma Programs by Graduate Unit

LHA 1113H	Gender and Race at Work
LHA 1114H	Comparative and International Perspectives in Adult Education
LHA 1117H	Consulting Skills for Adult Educators
LHA 1119H	Creating Learning Organization
LHA 1122H	Practicum in Adult Education and Community Development (Credit/No Credit)
LHA 1131H	Special Topics in Adult Education (Master's)
LHA 1132H	Special Topics in Women in Development and Community Transformation (Master's Level)
LHA 1141H	Organizations and the Adult Educator: Historical and Theoretical Perspectives on Organization Development
LHA 1143H	Introduction to Feminist Perspectives on Society and Education
LHA 1145H	Participatory Research in the Community and the Workplace
LHA 1146H	Women, War, and Learning
LHA 1148H	Introduction to Workplace, Organizational, and Economic Democracy
LHA 1150H	Critical Perspectives on Organizational Change
LHA 1152H	Individual Reading and Research in Adult Education: Master's Level
LHA 1156H	Power and Difference in Teams and Small Groups
LHA 1160H	Introduction to Transformative Learning Studies
LHA 1170H	Practitioners' Experienced Knowledge
LHA 1171H	Foundations of Aboriginal Education in Canada
LHA 1173H	Creativity and Wellness: Learning to Thrive
LHA 1180H	Aboriginal World Views: Implications for Education
LHA 1181H	Embodied Learning and Qi Gong
LHA 1182H	Nonprofits, Co-operatives, and the Social Economy: An Overview
LHA 1183H ⁺	Master's Research Seminar (Credit/No Credit)
LHA 1184H	Aboriginal Knowledge: Implications for Education

Degree and Diploma Programs by Graduate Unit

LHA 1185H	Leadership in Organizations: Changing Perspectives
LHA 1186H	Organizational Change in the Nonprofit and Public Sectors
LHA 1188H	Understanding Research Traditions
LHA 1189H	Work and Literacy: Theory, Policy, and Practice
LHA 1190H	Community Healing and Peacebuilding
LHA 1191H	Research Support Seminar
LHA 1192H	Adult Literacies in Social Justice Perspective
LHA 1193H	Adult Education for Sustainability
LHA 1194H	The Internet, Adult Education and Community Development
LHA 1195H	Technology@Work: The Internet in Workplace Learning and Change
LHA 1196H	Walking Together, Talking Together: The Praxis of Reconciliation
LHA 1197H	The Pedagogy of Food
LHA 3102H ⁺	Doctoral Thesis Seminar (Credit/No Credit)
LHA 3103H	Teaching about Global and Social Issues
LHA 3104H	Adult Education and Marxism
LHA 3119H	Global Perspectives on Feminist Education, Community Development, and Community Transformation
LHA 3131H	Special Topics in Adult Education (Doctoral)
LHA 3132H	Special Topics in Women in Development and Community Transformation
LHA 3133H	Special Topics in Aboriginal Community Learning: Current Issues and Practices
LHA 3140H	Decolonization and Transformative Education
LHA 3152H	Individual Reading and Research in Adult Education: Doctoral Level
LHA 3153H	Individual Reading and Research in Women in Development and Community Transformation: Doctoral Level
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education

LHA 3181H	Feminist Standpoints: Critical and Post-Structural Approaches
LHA 3182H	Citizenship Learning and Participatory Democracy
LHA 3183H	Mapping Social and Organizational Relations in Adult Education
LHA 3184H	Indigenous Research Methodologies
CIE 1001H	Introduction to Comparative, International, and Development Education
CIE 1002H	Practicum in Comparative, International, and Development Education
CIE 1005H	Special Topics in Comparative, International, and Development Education
WPL 1131H	Introduction to Workplace Learning and Social Change
WPL 3931H	Advanced Studies in Workplace Learning and Social Change

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

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.

SJE 1925H	Indigenous Knowledge and Decolonization: Pedagogical Implications
SJE 2942H	Education and Work

Educational Leadership and Policy

Master of Arts

The MA program in Educational Leadership and Policy 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.

- The department welcomes applicants with diverse but relevant backgrounds.
- 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).
- Two letters of reference, at least one from an academic referee.

Program Requirements

- 4.0 full-course equivalents (FCEs) plus a thesis. Additional courses may be required of some applicants.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

10 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Master of Education

The MEd program in Educational Leadership and Policy 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- 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 Leadership and Policy.
- **Option II** comprises:
 - 1.5 required full-course equivalents (FCEs): LHA 1003H *Conducting Research in Educational Leadership and Policy*; LHA 1040H *Policy, Leadership, and Change*; LHA 1041H *Social and Policy Contexts of Schooling*. LHA 1040H and LHA 1041H should be taken first; LHA 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 Leadership and Policy; LHA 1004H *Research Literacy in Educational Leadership and Policy* 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) LHA 2001Y⁰ *Major Research Paper* to be carried out under the guidance of a faculty member.
- **Option III** comprises:
 - 1.5 required FCEs: LHA 1003H *Conducting Research in Educational Leadership and Policy*; LHA 1040H *Policy, Leadership, and Change*; LHA 1041H *Social and Policy Contexts of Schooling*. LHA 1040H and LHA 1041H should be taken first; LHA 1003H should be taken towards the end of the program.
 - 1.5 other FCEs, of which at least 0.5 FCE must be in Educational Leadership and Policy; LHA 1004H *Research Literacy in Educational Leadership and Policy* 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: LHA 1004H *Research Literacy in Educational Leadership and Policy*; LHA 1040H *Policy, Leadership, and Change*; LHA 1041H *Social and Policy Contexts of Schooling*; LHA 1050H *Themes and Issues in Policy, Leadership, Change, and Diversity*. LHA 1004H, LHA 1040H, and LHA 1041H should preferably be the first courses taken in the student's program of study. LHA 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 Leadership and Policy. Students may choose to focus on one of the four research areas: policy, leadership, change, or social diversity.

Degree and Diploma Programs by Graduate Unit

Program Length

Option II:	5 sessions full-time (typical registration sequence: F/W/S/F/W) 10 sessions part-time
Option III:	6 sessions full-time (typical registration sequence: F/W/S/F/W/S); 10 sessions part-time.
Option IV:	4 sessions full-time (typical registration sequence: F/W/S/F); 10 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Doctor of Education

The EdD program in Educational Leadership and Policy 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- Master's degree with specialization in Educational Leadership and Policy 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:
 - **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:
 - LHA 3040H *People and Power in Organizations*
 - LHA 3041H *Doctoral Seminar on Policy Issues in Education*

- LHA 3042H *Field Research in Educational Leadership and Policy* and LHA 3044H *Internship/Practicum in Educational Leadership and Policy* or equivalent.
- 2.0 additional FCEs, 0.5 of which must be at the 3000 level.
- Successful completion of a portfolio that emphasizes reflective practice.
- A thesis proposal hearing.
- A doctoral thesis, one component of which may be a document of the kind used in the field, such as a policy document or policy handbook, white paper, or restructuring plan or another approved undertaking.

Cohort-Based Stream

- 4.0 core full-course equivalents (FCEs) as follows:
 - LHA 3025H *Personal and Professional Values of Educational Leadership*
 - LHA 3040H *People and Power in Organizations*
 - LHA 3041H *Doctoral Seminar on Policy Issues in Education*
 - LHA 3042H *Field Research in Educational Leadership and Policy*
 - LHA 3044H *Internship/Practicum in Educational Leadership and Policy*
 - LHA 3047H *Research Seminar on Leadership and Educational Change*
 - 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.

Program Length

4 years full-time; 6 years part-time

Time Limit

6 years full-time; 6 years part-time

Doctor of Philosophy

The PhD program in Educational Leadership and Policy 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 Educational Leadership and Policy program offers both full-time and flexible-time PhD options. To be admitted to the flexible-time option, 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.

Degree and Diploma Programs by Graduate Unit

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- 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 (QRP) 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 LHA 3040H, LHA 3042H, LHA 3043H, and one elective advanced-level (3000) course in Educational Leadership and Policy.
- 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.

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.

Some sections of existing courses are offered off campus and online in order to make them available to students in localities far from Toronto.

Educational Leadership and Policy

LHA 1003H	Conducting Research in Educational Leadership and Policy (RM)
LHA 1004H	Research Literacy in Educational Leadership and Policy (RM)
LHA 1005H	The Computer in the Administration of Education

LHA 1012H	Organizational Culture and Decision Making
LHA 1016H	School Program Development and Implementation
LHA 1018H	Political Skill in the Education Arena
LHA 1019H	Diversity and the Ethics of Educational Leadership and Policy
LHA 1020H	Teachers and Educational Change
LHA 1024H	Critical Conversations: Philosophy, Leadership, and Educational Policy
LHA 1025H	School Effectiveness and School Improvement
LHA 1026H	Evaluation of Professional Personnel in Education
LHA 1027H	The Search for Educational Quality and Excellence in a Global Economy
LHA 1029H	Special Applications of Educational Leadership and Policy: Master's Level
LHA 1030H	The Legal Context of Education
LHA 1040H	Policy, Leadership, and Change
LHA 1041H	Social and Policy Contexts of Schooling
LHA 1042H	Educational Leadership and Diversity
LHA 1045H	Language Policy Across the Curriculum
LHA 1047H	Managing Changes in Classroom Practice
LHA 1048H	Educational Leadership and School Improvement
LHA 1050H	Themes and Issues in Policy, Leadership, Change, and Diversity
LHA 1052H	Individual Reading and Research in Educational Leadership and Policy: Master's Level
LHA 1060H	School Leadership Seminar 1
LHA 1061H	School Leadership Seminar 2
LHA 1065H	Educational Equity and Excellence in International Comparison
LHA 2001Y ⁰	Major Research Paper
LHA 2006H	Educational Finance and Economics (exclusion: students who have taken TPS 1017H, TPS 1841H are not eligible to take LHA 2006H)
LHA 3022H	The Investigation of School Culture: An Examination of the Daily Life of Schools

Degree and Diploma Programs by Graduate Unit

LHA 3025H	Personal and Professional Values of Educational Leadership
LHA 3029H	Special Topics in Educational Leadership and Policy: Doctoral Level
LHA 3030H	Advanced Legal Issues in Education
LHA 3037H	Strategic Planning in Educational Organizations
LHA 3040H	People and Power in Organizations
LHA 3041H	Doctoral Seminar on Policy Issues in Education
LHA 3042H	Field Research in Educational Leadership and Policy (RM)
LHA 3043H	Survey Research in Educational Leadership and Policy (RM)
LHA 3044H	Internship/Practicum in Educational Leadership and Policy
LHA 3045H	Educational Policy and Program Evaluation
LHA 3046H	Gender Issues in Educational Leadership
LHA 3047H	Research Seminar on Leadership and Educational Change
LHA 3052H	Individual Reading and Research in Educational Leadership and Policy: Doctoral Level
LHA 3055H	Democratic Values, Student Engagement and Democratic Leadership
LHA 3145H	Advanced Issues in Educational Policy Analysis and Program Evaluation
JCT 2000H	Proseminar in Educational Evaluation, Measurement, and Policy Analysis
JCT 2001H	Using Classroom Assessment to Enhance Student Learning

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

Higher Education

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.

- The department welcomes applicants with diverse but relevant backgrounds.
- 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) including:
 - LHA 1803H *Recurring Issues in Postsecondary Education* and
 - a half course in Research Methods.
- Thesis.
- 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 students.

Program Length

5 sessions full-time (typical registration sequence: F/W/ S/F/W);
10 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Master of Education

The Master of Education is offered in three fields:

- Health Professional Education
- Higher Education
- Student Development and Student Services in Postsecondary Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.

Program Requirements

Field: Health Professional Education

- Students in the health professional education field 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; department permission is required for registration in this option.
 - Option IV: one half course (0.5 FCE), LHA 1803H *Recurring Issues in Postsecondary Education*
 - one half course (0.5 FCE) in Research Methods
 - 1.0 FCE must be courses in the Health Professional Education field

- 1.0 FCE must be courses in general Higher Education
- 0.5 FCE, either an elective or a required, must have an equity focus
- Equity-focused courses must be approved by the student Faculty advisor. See the course listing for samples.
- 1.5 FCE elective courses.

Field: Higher Education

- Students in the Higher Education field pursue the MEd Option IV degree program: 5.0 full-course equivalents (FCEs) including:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE)
 - one half course (0.5 FCE) in Research Methods
 - eight half courses (4.0 FCEs)

Field: Student Development and Student Services in Postsecondary Education

- Students in the Student Development and Student Services in Postsecondary Education field are required to complete 5.0 FCEs and fulfil the following requirements in the MEd Option IV:
 - one half course (0.5 FCE), LHA 1803H *Recurring Issues in Postsecondary Education*
 - one half course (0.5 FCE) in Research Methods
 - three half courses (1.5 FCEs) in Student Development and Student Services (LHA 1853H, LHA 1854H, and LHA 1844H)
 - four elective half courses (2.0 FCEs), of which one half course must have an equity focus
 - Equity-focused courses must be approved by the student Faculty advisor. See the course listing for samples.
 - LHA 1855H *Capstone Seminar in Student Development* (0.5 FCE)

Program Length

Option II:	5 sessions full-time (typical registration sequence: F/W/S/F/W); 10 sessions part-time
Option IV:	4 sessions full-time (typical registration sequence: F/W/S/F); 10 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Doctor of Education

Field: Higher Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

Leadership, Higher and Adult Education's additional admission requirements stated below.

- The department welcomes applicants with diverse but relevant backgrounds.
- 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:
 - LHA 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 proseminar (0.5 FCE).
- Doctoral comprehensive examination.
- Thesis reporting the results of original research on an applied topic in postsecondary education.

Program Length

4 years full-time; 6 years part-time

Time Limit

6 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. Applicants must also satisfy the Department of Leadership, Higher and Adult Education's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- 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 3.0 full-course equivalents (FCEs) including:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE).
 - at least 1.0 other FCE in Higher Education.

Degree and Diploma Programs by Graduate Unit

- 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.

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.

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

LHA 1802Y	Theory in Higher Education
LHA 1803H	Recurring Issues in Postsecondary Education
LHA 1804H	Issues in Medical/Health Professional Education
LHA 1805H	The Community College
LHA 1806H	Systems of Higher Education
LHA 1807H	Strategic and Long-Range Planning for Postsecondary Systems
LHA 1808H	Research in Health Professional Education
LHA 1809H	Administration of Colleges and Universities
LHA 1810H	Evaluation of Knowledge, Clinical Competence, and Professional Behaviour in the Health Professions
LHA 1811H	Institutional Research and Planning
LHA 1812H	Education and the Professions
LHA 1813H	Issues in Cognitive and Educational Psychology: Implications for Health Professional Education
LHA 1815H	Teaching in Institutions of Higher Education
LHA 1817H	Nurturing Professional Education

LHA 1819H	Governance in Higher Education
LHA 1820H	Special Topics in Higher Education: Master's Level
LHA 1821H	Institutional Differentiation in Postsecondary Education
LHA 1825H	Comparative Education: Theory and Methodology
LHA 1826H	Comparative Higher Education
LHA 1828H	Evaluation in Higher Education
LHA 1832H	East Asian Higher Education
LHA 1833H	Academic Capitalism: Higher Education with a Corporate Agenda
LHA 1834H	Qualitative Research in Higher Education
LHA 1836H	Critical Analysis of Research in Higher Education
LHA 1837H	Environmental Health, Transformative Higher Education, and Policy Change: Education Toward Social and Ecosystem Healing
LHA 1843H	Higher Education and the Law
LHA 1844H	The Student Experience in Postsecondary Education
LHA 1845H	Applications in the Student Experience
LHA 1846H	Internationalization of Higher Education in a Comparative Perspective
LHA 1848H	Innovative Curricula in Higher Education and the Professions
LHA 1850H	Quantitative Research Process and Design
LHA 1851H	Survey Methodology
LHA 1852H	Individual Reading and Research in Higher Education: Master's Level
LHA 1853H	Introduction to Student Services
LHA 1854H	Student Development Theory
LHA 1855H	Capstone in Student Development and Student Services
LHA 2006H	Educational Finance and Economics (exclusion: students who have taken TPS 1017H, TPS 1841H are not eligible to take LHA 2006H)
LHA 3810H	International Academic Relations
LHA 3820H	Special Topics in Higher Education: Doctoral Level

Degree and Diploma Programs by Graduate Unit

LHA 3852H	Individual Reading and Research in Higher Education: Doctoral Level
Higher Education Courses With Equity Focus	
For a complete listing, check with the department.	
LHA 1029H	Special Applications of Educational Leadership and Policy: Master's Level
LHA 1042H	Educational Leadership and Diversity
LHA 1150H	Critical Perspectives on Organizational Change
LHA 1820H	Special Topics in Higher Education: Master's Level
LHA 1833H	Academic Capitalism: Higher Education with a Corporate Agenda
LHA 1843H	Higher Education and the Law
LHA 3810H	International Academic Relations
SJE 1922H	Sociology of Race and Ethnicity
WPL 1131H	Introduction to Workplace Learning and Social Change

Graduate Faculty

Full Members

Anderson, Stephen - BA, MA, PhD
 Bascia, Nina - PhD (**Chair and Graduate Chair**)
 Burstow, Bonnie - BA, MEd, MA, PhD
 Campbell, Carol - BA, PhD
 Chambers, Anthony - BS, MS, EdD
 Childs, Ruth - BS, MA, PhD
 Cole, Ardra - BA, BEd, MEd, EdD
 Davies, Robert Scott - BA, MA, PhD
 Deibert, Ronald - BA, MA, PhD
 Dietsche, Peter - BA, MA, PhD, PhD
 Esmonde, Indigo - BSc, MSc, MA, PhD
 Flessa, Joseph - BA, MA, PhD
 Gallagher, Kathleen Marie - PhD
 Gaskell, Jane - BA, EdD
 Hayhoe, Ruth - BA, MA, PhD
 Hildyard, Angela - BSc, MA, PhD
 Hodges, Brian - BA, MEd, MD
 Jones, Glen - BA, BEd, MEd, PhD
 Joshee, Reva - BLitt, MA, PhD
 Magnusson, Jamie-Lynn - BA, MA, PhD
 Mascall, Blair - BA, MSc, PhD (**Associate Chair, Program Coordinator, Educational Administration**)
 McCready, Lance - BA, MA, PhD
 Miles, Angela - BA, MA, PhD
 Mirchandani, Kiran - BA, MPH, PhD
 Mojab, Shahrzad - BA, MEd, EdD
 Mundy, Karen - BA, MA, PhD
 Muzzin, Linda - BA, MA, MPsy, PhD
 Pascal, Charles - BA, AM, PhD
 Portelli, John - MEd, PhD

Quarter, Jack - PhD
 Razack, Sherene - BA, MA, PhD
 Restoule, Jean-Paul - BA, MA, DPhil
 Ryan, James - BEd, MEd, PhD
 Sa, Creso - BA, MA, DPhil
 Sawchuk, Peter - BSc, BEd, PhD
 Seifert, Tricia - BA, MS, PhD
 Stein, Janice - BA, MA, PhD, OC, FRSC
 Sykes, Heather - BSc, PhD
 Wane, Njoki - BE, MSc, MEd, PhD
 Wheelahan, Elizabeth Leesa - BA, MA, PhD

Members Emeriti

Berry, R Albert - BA, PhD
 Bogdan, Deanne - BA, MA, PhD
 Boyd, Dwight - BA, MEd, EdD
 Corter, Carl - BA, PhD
 Jackson, Nancy - BA, MA, PhD
 Knowles, J Gary - MS, EdD
 Lang, Daniel - BA, MAT, PhD
 Lawton, Stephen - BA, MA, MA, PhD
 Leithwood, Kenneth - BA, BPHE, MPE, PhD
 Miezeitis, Solveiga - BA, MA, PhD
 Padro, Susan - BA, MS, PhD
 Skolnik, Michael - BPhil, BA, MA
 Sullivan, Edmund - MA, PhD
 Watson, Cicely - BA, MA, PhD

Associate Members

Albert, Mathieu - PhD
 Armstrong, Ann - MBA, PhD
 Armstrong, Denise - BA, MEd, PhD
 Bakan, Abigail - BA, MA, PhD
 Baskin, Cyndy - BSW, BA, MSW, PhD
 Bell, Mary - BPT, BSc, MSc, MD
 Bhuyan, Rupaleem - BA, MA, PhD
 Bickmore, Kathy - MA, PhD
 Broad, Kathy - BEd, BA, MEd, PhD
 Brydges, Ryan - BSc, MSc, PhD
 Chmielewski, Anna - BA, MA, PhD
 Church, Kathryn - PhD
 Daiski, Isolde - BScN, MEd, EdD
 Daly, Alan James - MA, PhD
 Dei, George JS - BA, MA, PhD
 Desbiens, Brian - AB, MA, PhD
 Drea, Catherine - AB, MA, EdD
 Freeman, Risa - BSc, MEd, MD
 Gorman, Rachel - BA, MA, PhD
 Halai, Anjum - PhD
 Hedley, Patricia - MEd, BMR(PT), PhD
 James, Carl - MA, PhD
 Kingwell, Mark - BA, MA, MPH, DFA, PhD
 Knight, Jane - PhD
 Koc, Mustafa - BA, MA, PhD
 Kuper, Ayelet - AB, MEd, MD, PhD
 Larkin, June - PhD
 LeBlanc, Vicki - PhD
 Lopez, Ann - BA, BE, MEd, PhD

Degree and Diploma Programs by Graduate Unit

Manion, Caroline - PhD
Maracle, Lee - BA
Martimianakis, Maria Athina - MA, MEd, PhD
Mashford-Pringle, Angela - BS, MA
McElhinny, Bonnie - BA, MA, MA, PhD, PhD
Mcnaughton, Nancy - BA, MEd, PhD
McTiernan, Tim - BA, MPsy, PhD
Miller, John - BA, MAT, PhD
Neilsen, Lorri - PhD
Pendelton Jiminez, Karleen - BA, PhD
Pollock, Katina - PhD
Rosenkrantz, Otte - PhD
Scott-Webber, Linda - MA, PhD
Shepard, Alan - PhD
Smythe, Suzanne - BA, MA, PhD
Stewart, C - BA, MEd, PhD
Sumner, George - PhD
Titchkosky, Tanya - BA, MA, PhD
Vargo, John - PhD
Vieta, Marcelo A - BA, MA, PhD
Wadey, Veronica - BSc, BEd, MSc, MD
Weinstein Cayuela, Jose - PhD
Young, Lynne - PhD
Young, Stacey - PhD
Zha, Qiang - BA, MA, PhD
Zuker, Marvin - BA, LLB, MEd

Linguistics

Faculty Affiliation

Arts and Science

Degree Programs

Linguistics

MA

PhD

Collaborative Programs

The following collaborative program is available to students in participating degree programs as listed below:

1. **Jewish Studies**
 - Linguistics, PhD
2. **Sexual Diversity Studies**
 - 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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Linguistics' additional admission requirements stated below.
- Applicants with a bachelor's degree, with a minimum B+ average, may be admitted to a two-year MA

Degree and Diploma Programs by Graduate Unit

program or the one-year advanced-standing option, depending on their background in linguistics. Admission to the one-year program option requires a strong background in linguistics with at least courses in introductory phonetics, phonology, morphology, and syntax. Admission to the two-year program is offered to exceptional applicants whose background is limited to these courses.

Program Requirements

- The **one-year MA** program option 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.
- The **two-year MA** program normally requires 8.0 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. LIN 1121H, LIN 1131H, and LIN 1181H are normally taken in the first year. LIN 1290Y is taken in the final year of the program.
- All students must demonstrate an ability to read professionally in one language other than English. The choice of language must be approved by the Graduate Coordinator, having regard to the student's field of research. In some circumstances, demonstrated competence in computer programming may satisfy the requirement.

Program Length

3 sessions 1-year option (typical registration sequence: F/W/S);

6 sessions 2-year program (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Linguistics' additional admission requirements stated below.
- University of Toronto MA in Linguistics, or its equivalent, with at least an A- average.

Program Requirements

- Students are required to complete 3.0 full-course equivalents (FCEs), normally during the first year, with a minimum median grade of A-. General 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

Degree and Diploma Programs by Graduate Unit

the end of the second year, with a minimum median grade of A-.

- During these two years, students are normally required to be on campus full-time; i.e., 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.

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	Field Methods
JAL 1153H	Conversational Structures
JAL 1155H	Language and Gender
JLP 2450H	Psycholinguistics
JLP 2451H	Language Acquisition
JLP 2452H	Language Acquisition and Linguistic Theory
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	Morphological Patterns in Language
LIN 1032H	Syntactic Patterns
LIN 1041H	Introduction to Semantics
LIN 1121H	Phonological Theory
LIN 1126H	Acoustic Phonetics
LIN 1127H	Phonetic Analysis

LIN 1131H	Introduction to Syntactic Theory
LIN 1133H	Morphology: Morphosyntactic Issues
LIN 1145H	Semantics
LIN 1146H	Intensional Semantics (prerequisite: LIN 1145H)
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 1181H	Introduction to Analysis and Argumentation
LIN 1205H	Topics in Experimental Design
LIN 1211H	Advance Phonetics (prerequisite: LIN 228H, LIN 323H, or permission of the instructor)
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 1256H	Advanced Language Variation II
LIN 1270H	Language Processing
LIN 1290Y	Linguistic Forum
LIN 1321H	Research in Phonology
LIN 1331H	Research in Syntax
LIN 1502Y	Reading Seminar
LIN 1503H	Reading 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

Chambers, Craig - BA, MA, MA, PhD
Cuervo, Maria Cristina - PhD
Heller, Daphna - PhD
Ippolito, Michela - BA, MPH, PhD
Johns, Alana - BA, MA, PhD (**Graduate Coordinator**)
Kahnemuyipour, Arsalan - PhD
Kang, Yoon Jung - BA, PhD
Kochetov, Alexei - BA, MA, PhD
Massam, Diane - BA, MA, PhD
Nagy, Naomi - BA, PhD
Perez-Leroux, Ana Teresa - MA, PhD
Rice, Keren - BA, MA, PhD (**Chair and Graduate Chair**)
Roberge, Yves - BA, MA, PhD
Smyth, Ronald - BA, MSc, PhD
Tagliamonte, Sali - AB, MA, DPhil

Members Emeriti

Binnick, Robert - BA, MA, PhD
Chambers, J - DipEd, BA, MA, PhD
Cowper, Elizabeth - BA, AM, PhD
Dresher, B Elan - BA, PhD

Associate Members

Bhatt, Parth - BA, MA, PhD
Brousseau, Anne-Marie - PhD
Chasin, Marshall - BSc, MSc
Colantoni, Laura - MA, PhD
Hachimi, Atiqah - BA, MA, PhD
Hall, Daniel Currie - BA, MA, PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Johnson, Elizabeth - BA, MA, PhD
Jurgec, Peter - BA, PhD, ScD
Monahan, Philip Joseph - BPhil, MPH, PhD
Nikiema, Emmanuel - PhD
Pirvulescu, Mihaela - MA, PhD
Schallert, Joseph - PhD
Sidnell, Jack - BA, MA, PhD
Steele, Jeffrey - BA, MA, PhD

Management, Rotman School of Management

Faculty Affiliation

Management, Rotman School of Management

Degree Programs

Management

MBA

Executive Master of Business Administration: EMBA

Omnium Global Executive Master of Business Administration: GEMBA

Finance

MF

Combined Degree Programs

BASc / MBA

JD / MBA

MBA / MGA

PharmD / MBA

Joint Degree Program

The following program is offered jointly by the Rotman School of Management and Department of Economics: **Financial Economics, MFE**. See the separate, full calendar entry for Financial Economics.

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

Overview

The Rotman School of Management offers a suite of management programs including:

- the **Master of Business Administration**, available in full-time and extended full-time (Morning and Evening) 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 Executive Master of Business Administration

(EMBA) for executives wanting to participate in an internationally focused business program;

- the **Master of Finance**, training tomorrow's global finance leaders;

Other areas, including international business, are available for selection as the minor field in Management.

In addition, the Rotman School of Management offers four combined MBA degree programs:

1. The **Combined Degree Program in Law, Juris Doctor / Master of Business Administration** 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.
2. The **Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Master of Business Administration** established by the Faculty of Applied Science and Engineering and the Rotman School of Management, provides a fast track for students to earn their bachelor's degree in engineering and an MBA in six years and eight months.
3. The **Combined Degree Program in Master of Business Administration / Master of Global Affairs** is a four-year program offered by the Munk School of Global Affairs and the Rotman School of Management for students who wish to combine graduate training in Global Affairs and Management. This combined degree program will provide students with an opportunity to integrate a truly international approach and perspective into their study of business and bring a business perspective to the study of global affairs.
4. The **Combined Degree Program in Pharmacy, Doctor of / Master of Business Administration** is a five-year program offered by the Leslie Dan Faculty of Pharmacy and the Rotman School of Management. This program, unique in Canada, provides graduates with unparalleled opportunities for leadership within the health care and pharmaceutical manufacturing sectors. Students would earn both degrees in less time than it would take to complete them separately.

Contact and Address

Rotman School of Management

Web:

general: www.rotman.utoronto.ca

Global Executive MBA: www.rotman.utoronto.ca/Degrees/MastersPrograms/MBAPrograms/OmniumGlobalEMBA.aspx

Finance: www.rotman.utoronto.ca/Degrees/MastersPrograms/MasterOfFinance.aspx

Telephone:

MBA: (416) 978-3499

Executive MBA: (416) 946-3022
 Omnium Global Executive MBA: (416) 946-3022
 Finance: (416) 946-3377

Rotman School of Management
 University of Toronto
 105 St. George Street
 Toronto, Ontario M5S 3E6
 Canada

Degree Programs Management

Master of Business Administration

Full-Time MBA Program

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rotman School's additional admission requirements stated below.
- 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 Record Examination (GRE; General Test). Test results are valid for five years.
- A minimum of two years of full-time work experience is strongly recommended.
- The Full-Time MBA program commences annually in September. Applicants for the Full-Time program are encouraged to apply as per the deadline dates (beginning in November with a final deadline in June).

Program Requirements

- Within this 16-month program (two academic years), students must:
 - Complete the set of required 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 academic work completed or professional designations earned).
 - Complete 5.0 elective full-course equivalents (FCEs) at the 2000 level (equivalent to ten 2000-level courses).
 - With the permission of the Academic Director, 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.

Degree and Diploma Programs by Graduate Unit

Required Courses for the Full-Time MBA Program (to be completed in the first year)

Weighting for 1000-level courses is determined by the second digit of the four-digit course number as follows:

Second-Digit Course Weight

1	one credit hour
2	two credit hours
3	three credit hours
RSM 1110H	Model-Based Decision Making
RSM 1111H	Integrating Models and Data
RSM 1160H	Business Ethics
RSM 1210H	Managerial Economics
RSM 1213H	Model-Based Decision Making in Practice
RSM 1222H	Managerial Accounting
RSM 1232H	Finance II: Corporate Finance
RSM 1261H	Managerial Negotiations
RSM 1301H	Fundamentals of Strategic Management
RSM 1310H	Economic Environment of Business
RSM 1320H	Financial Accounting
RSM 1331H	Finance I: Capital Markets and Valuation
RSM 1340H	Operations Management
RSM 1350H	Managing Customer Value
RSM 1360H	Leading People in Organizations
RSM 1382H	Statistics for Management

Second-Year Elective Courses for the Full-Time MBA Program

Courses are listed below under Elective Courses for the Full-Time MBA and Extended Full-Time MBA (Morning and Evening) Programs.

Extended Full-Time MBA Program (Morning and Evening)

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rotman School's additional admission requirements stated below.
- 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 Record Examination (GRE; General Test). Test results are valid for five years.

Degree and Diploma Programs by Graduate Unit

- A minimum of two years of full-time work experience is required.
- The Extended Full-Time MBA program commences annually in August. Applicants for the Extended Full-Time MBA program are encouraged to apply as per the deadline dates (beginning in the fall with a final deadline in June). Applicants who meet all of the criteria will be assessed by the Admissions Committee on the basis of grades, standardized test scores, references, essays, professional experience, and a personal interview.

Program Requirements

- This program, designed for working professionals, covers the equivalent of two academic years but is delivered over a three-year period.
- Students complete requirements through either the Morning or Evening program options.
- There are two sections in the Morning and Evening MBA programs. The Morning section holds classes twice a week from 7:00 am to 8:59 am; the Evening section holds classes twice a week from 6:30 pm to 8:30 pm.
- Students must:
 - 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).
 - 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.

Program Length

4 sessions (2 years) full-time (typical registration sequence: F/W/F/W);

8 sessions (3 years) extended full-time (Morning and Evening) (typical registration sequence: F/W/S/F/W/S/F/W)

Time Limit

3 years for both options

Required Courses for the Extended Full-Time MBA Program

Weighting for 1000-level courses is determined by the second digit of the four-digit course number as follows:

Second-Digit Course Weight

1	one credit hour
2	two credit hours
3	three credit hours
RSM 1160H	Business Ethics
RSM 1210H	Managerial Economics
RSM 1222H	Managerial Accounting
RSM 1232H	Finance II: Corporate Finance
RSM 1291H	Business Problem Solving: A Model-Based Approach
RSM 1301H	Fundamentals of Strategic Management
RSM 1310H	Economic Environment of Business
RSM 1320H	Financial Accounting
RSM 1331H	Finance I: Capital Markets and Valuation
RSM 1340H	Operations Management
RSM 1350H	Managing Customer Value
RSM 1360H	Leading People in Organizations
RSM 1382H	Statistics for Management
RSM 2607H	Managerial Negotiations
RSM 2915H	Business Problem Solving Practicum

Elective Courses for the Full-Time MBA and Extended Full-Time MBA (Morning and Evening) Programs

Consult the department each session about course offerings.

RSM 2000H	Multi-disciplinary Special Topics
RSM 2002Y	Research Project
RSM 2003H	Research Project
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	Pharmaceutical Strategy
RSM 2018H	Business Strategy by Firms Based in Emerging Markets
RSM 2019H	Corporation 360

RSM 2020H	Health Sector Strategy and Organizations
RSM 2021H	Corporate Strategy
RSM 2022H	Competition and Strategy in Creative Industries
RSM 2023H	Strategic Change and Implementation
RSM 2024H	Outsourcing
RSM 2027H	Not-for-Profit Consulting
RSM 2030H	Canadian Business History in a Global Context
RSM 2050H	Technology/Management Interface
RSM 2052H	Management Consulting
RSM 2053H	Organizational Strategy
RSM 2054H	Technology Strategy
RSM 2055H	Cooperative Strategy
RSM 2056H	Game Theory and Competitive Strategy
RSM 2057H	Venture Capital
RSM 2058H	Case Analysis and Presentation
RSM 2059H	Health Care Consulting
RSM 2060H	Network and Digital Market Strategy
RSM 2061H	Leveraging Strategic Networks
RSM 2062H	Management Consulting Practicum
RSM 2063H	Catastrophic Failure in Organizations
RSM 2080H	Special Topics in Strategic Management
RSM 2081H	Special Topics in Strategic Management
RSM 2083H	Special Topics in Strategic Management
RSM 2084H	Healthcare Topics in Transformation
RSM 2087H	Corporate Citizenship Strategy
RSM 2098H	Special Topics in Strategic Management
RSM 2099H	Special Topics: Strategic Management
RSM 2109H	Rotman Study Tour
RSM 2115H	Creative Regional Strategies
RSM 2116H	Special Topics in Business Economics
RSM 2117H	Special Topics in Business Economics
RSM 2118H	Special Topics in Business Economics
RSM 2119H	Special Topics in Business Economics
RSM 2120H	Health Policy and Health Care Markets

Degree and Diploma Programs by Graduate Unit

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 2131H	Economics of Innovation and Intellectual Property
RSM 2132H	Prosperity and Competitiveness
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 and Decision-Making
RSM 2209H	Financial Statement Analysis
RSM 2210H	Financial Distress and Insolvency
RSM 2211H	Business Law
RSM 2212H	Business Analysis and Valuation
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

Degree and Diploma Programs by Graduate Unit

RSM 2310H	Analysis and Management of Fixed Income Securities
RSM 2311H	Applied Portfolio Management
RSM 2312H	Value Investing
RSM 2314H	Private Equity and Entrepreneurial Finance
RSM 2315H	Management of Private Wealth
RSM 2316H	Introduction to Hedge Funds and Broker Dealers
RSM 2317H	Special Topics in Finance
RSM 2319H	The Revolution in Finance: Markets, Institutions, and Organizations
RSM 2320H	The Canadian and American Financial Systems—Comparisons and Contrasts
RSM 2321H	Special Topics in Finance
RSM 2405H	Supply Chain Management
RSM 2406H	Operations Management Strategy
RSM 2407H	Services Operations Management
RSM 2408H	The Art of Modeling Spreadsheets
RSM 2415H	Special Topics in Management Science
RSM 2500H	Marketing Strategy
RSM 2501H	Global Marketing
RSM 2504H	Consumer Behaviour
RSM 2505H	Strategic Marketing Communications
RSM 2506H	Marketing Research
RSM 2507H	Marketing Analysis and Decision Making
RSM 2508H	Sales Management
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 2517H	Innovation, Foresight, and Business Design
RSM 2518H	Special Topics in Marketing
RSM 2519H	Special Topics in Marketing
RSM 2520H	Special Topics in Marketing

RSM 2521H	Marketing Using Information Technology
RSM 2522H	Marketing and Behavioural Economics
RSM 2524H	Design Practicum
RSM 2601H	Organization Design
RSM 2603H	Advanced Negotiations and Conflict Management
RSM 2605H	International Organizational Behaviour
RSM 2606H	Designing New Work Organizations
RSM 2607H	Managerial Negotiations
RSM 2609H	Aligning People and Strategy
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 2620H	Leading Teams
RSM 2621H	Effective Leadership
RSM 2704H	Information Technology Management
RSM 2800H	Management Science
RSM 2910H	Learning How to Learn
RSM 2913H	Getting It Done®
RSM 2916H	Leadership from the Inside Out
RSM 2917H	Multidisciplinary Special Topics
RSM 2918H	Multidisciplinary Special Topics
RSM 2920H	Top Manager's Perspective
RSM 2922H	The Opposable Mind
RSM 2923H	Business Problem Solving

Executive Master of Business

Administration (EMBA)

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rotman School's additional admission requirements stated below.
- 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 that 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 weeklong residential modules and study periods.
 - With the permission of the Associate Dean and EMBA Program Director, students in good standing may apply to participate in an international exchange program approved by the Rotman School of Management for one course.

Program Length

4 sessions (13 months) full-time (typical registration sequence: F/W/S/F)

Time Limit

3 years

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	Business Problem Solving: A Model-Based Approach

Degree and Diploma Programs by Graduate Unit

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

Omnium Global Executive Master of Business Administration (GEMBA)

Minimum Admission Requirements

- Applicants are considered under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rotman School's additional admission requirements stated below.
- 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 that 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 six two-week international modules 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.
 - For details on visa and travel requirements to fulfil the international modules, visit the website.

Program Length

5 sessions (18 months) full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years

Courses for the GEMBA

RSM 5001H	Strategy 1
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Degree and Diploma Programs by Graduate Unit

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	Managing Innovation

Combined Degree Program: The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Management, Master of Business Administration

For full details, see the Engineering, Bachelor of Applied Science / Master of Business Administration entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Law, Juris Doctor / Management, Master of Business Administration

For full details, see the Law, Juris Doctor / Master of Business Administration entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Management, Master of Business Administration / Master of Global Affairs

For full details, see the Master of Business Administration / Master of Global Affairs entry in the Combined Degree Programs section of this calendar.

Combined Degree Program: Pharmacy, Doctor of / Master of Business Administration

For full details, see the Pharmacy, Doctor of / Master of Business Administration entry in the Combined Degree Programs section of this calendar.

Finance

Master of Finance

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rotman School's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with a mid-B average in the final year of undergraduate or prior graduate education.
- Satisfactory score on the Graduate Management Admissions Test (GMAT) or GRE (Graduate Record Examination; General Test). Students who have passed the Uniform Evaluation (UFE) or all three levels of the Chartered Financial Analyst (CFA) designation prior to the application deadline are exempt from the GMAT/GRE requirement. Exemptions from the GMAT requirement are granted to applicants who have graduated from the University of Toronto with high distinction (cumulative grade point average of 3.5 or higher).
- At least two years of full-time work experience in finance are required. In special circumstances, other substantial experience 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.
- Applicants who meet all the criteria will be assessed on the basis of their application essay, grades, standardized graduate test scores, references, and professional experience by the admissions committee. Prospective students will then be invited for an admission interview. The admission decision will be based on both submitted materials and interview performance.

Degree and Diploma Programs by Graduate Unit

Program Requirements

- Within this 20-month program (two academic years):
 - Students must complete a structured sequence of 14 courses taken over five sessions (including Summer). No advanced standing will be granted for previous academic work completed or professional designations earned.
 - Students may be required to do some pre-program studies during the summer prior to the start of the program, depending on background preparation.

Program Length

5 sessions (2 years) full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years

Courses for the Master of Finance

RSM 4113H	Macro Economics for Finance Professionals
RSM 4216H	Financial Reporting and Financial Statement Analysis
RSM 4220H	Advanced Accounting Topics for Finance
RSM 4310H	Foundations of Finance
RSM 4311H	Corporate Finance and Valuation
RSM 4312H	Derivatives
RSM 4314H	Risk Management and Financial Institutions
RSM 4315H	Investment Banking
RSM 4317H	Analysis of Fixed Income Markets
RSM 4318H	Applied Portfolio Management
RSM 4319H	Forecasting Risks and Opportunities for Financial Securities
RSM 4322H	Applications of Derivatives Products
RSM 4323H	Investments
RSM 4621H	Leadership and Negotiations for Finance Professionals

Graduate Faculty

Full Members

Afeche, Philipp - BA, MS, PhD
 Agrawal, Ajay - BAsC, MEng, MBA, PhD
 Amburgey, Terry - BS, MA, PhD
 Amernic, Joel - BSc, MBA, CA
 Bar-Isaac, Yeheskel (Heski) - BA, MSc, PhD
 Baron, Opher - BSc, MBA, PhD

Baum, Joel - BA, MBA, PhD (*Interim Graduate Chair, Graduate Department of Management; Associate Dean, Faculty*)

Berdahl, Jennifer - BA, MA, MA, PhD

Berman, Oded - BA, PhD

Blum, Bernardo Soares - BA, MA, MA, PhD

Booth, Laurence - BSc, MBA, MA, DBA

Brean, Donald - BA, MBA, MSc, PhD

Callen, Jeffrey - BM, MBA, DPhil

Casciaro, Tiziana - BA, MS, PhD

Ching, Andrew Tat Tin - BA, MA, MA, PhD

Christoffersen, Peter - BA, PhD

Christoffersen, Susan - BA, MA, PhD

Corts, Kenneth - BA, MA, PhD (*Vice-Dean, Faculty and Research*)

Cote, Stephane - BSc, MA, PhD

Cunningham, William - BA, MPH, MS, MA, PhD

Dart, Beatrix - MSt, MEc, PhD (*Associate Dean, EMBA and OMNIUM Programs*)

Davydenko, Sergei - MA, MSc, PhD

De Franco, Gus - BA, MBA, PhD

De Voe, Sanford - BA, PhD

Doidge, Craig Andrew - BComm, MSc, PhD

Dungan, D Peter - BA, MA, PhD

Dyck, Alexander - BA, PhD

Elitzur, Ramy - BA, MBA, PHM, PhD

Florida, Richard - BA, PhD

Gans, Joshua - BEc, PhD

Golden, Brian - BS, MS, PhD (*Vice-Dean, Professional Programs*)

Goldfarb, Avi - BA, MA, PhD

Goldreich, David - BS, MS, MS, PhD (*Academic Director, Extended Full-Time MBA Program*)

Gunz, Hugh - DPhil, PhD

Han, Bing - PhD

Han, Lu - BA, MA, PhD

Hansen, Samantha - BA, MA, PhD

Hawkins, Scott - BA, MS, PhD

Hejazi, Walid - BA, MA, PhD

Hope, Ole-Kristian - MBA, PhD

Horstmann, Ignatius - BA, PhD

Hull, John - BA, MA, MA, PhD

Hyatt, Douglas - BA, MA, PhD

Kan, Raymond - BBA, MBA, DPhil

Kaplan, Sarah - BA, MA, PhD

Kirzner, Eric - BA, MBA

Krass, Dmitry - BS, MEng, PhD

Latham, Gary - BA, MS, PhD

Law, Sharmistha - BA, MBA, PhD

Lederman, Mara - BA, PhD

Leonardelli, Geoffrey - BA, MA, PhD

Liao, Wei-Yi (Scott) - MA, PhD

Liu, Christopher - BA, PhD, DBA

Liu, Christopher - BA, PhD, DBA

Lu, Hai - MBA, PhD, PhD

Macklem, Tiff - BA, MA, PhD (*Dean*)

Mahrt-Smith, Jan - BSc, PhD (*Academic Director, Full-Time MBA Program*)

Martin, Roger - AB, MBA

Degree and Diploma Programs by Graduate Unit

Mazar, Nina - MBA, PhD
McCarthy, Julie - BA, MPsy, PhD
McCurdy, Thomas - BA, MA, PhD
McEvily, William - BS, PhD
McGahan, Anita - BA, MA, MBA, PhD (**Associate Dean, Research; Director PhD Program**)
Mehta, Nitin - BTech, MS, MS, PhD
Milner, Joseph - BSc, MS, PhD
Mitchell, Matthew - BS, MA, PhD
Mitchell, William - BBA, PhD
Mohanram, Partha Sarathy - BTech, MBA, PhD
Moldoveanu, Mihnea (Michael) - BSc, MSc, DBA
Moorthy, Sridhar - BSc, MBA, MS, PhD
Oxley, Joanne - BSc, MA, MBA, PhD
Pauly, Peter - MA, PhD
Reuber, Rebecca - BA, MSc, PhD
Richardson, Gordon - BA, MBA, PhD, CA
Rotenberg, Wendy - BA, MBA, PhD
Rotundo, Maria - BA, MA, PhD
Rowley, Timothy - BA, MBA, PhD
Rutherford, Scott - BSc, MBA
Ryall, Michael - BS, MBA, PhD
Saks, Alan - BA, MSc, PhD
Shi, Mengze - BSc, MBA, PhD
Silverman, Brian - AB, MA, SM, PhD
Smieliauskas, Waldemar - BS, MS, PhD
Soberman, David - BSc, MBA, PhD
Soman, Dilip - BE, MBA, PhD
Stabile, Mark - BA, MA, PhD
Strange, William - BA, MA, PhD
Toh, Soo Min - BBA, PhD
Trefler, Daniel - BA, MPH, PhD
Trogakos, John Peter - BS, MBA, PhD
Tsai, I-Wen (Claire) - BBA, MBA, PhD
Verma, Anil - BTech, MBA, PhD
Wang, Qing (Kevin) - BS, MA, PhD
Wei, Jason - BSc, MBA, PhD
White, Alan - BEng, MBA, PhD
Whyte, Glen - LLB, MA, MPH, MBA, PhD
Womack, Kent - BA, MBA, PhD
Wong, Moon Hung (Franco) - BA, MA, PhD
Xie, Jia Lin - BA, MBA, PhD
Zhang, Ping - BA, MAcct, MA, PhD
Zhao, Min - BA, MA, PhD
Zhong, Chenbo - BA, MA, PhD
Zweig, David - BA, MSc, PhD

Members Emeriti

Bird, Richard - BA, MA, PhD
Fisher, James - BA, MBA
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

Ambachtsheer, Keith - BA, MA
Beatty, David - BA, MA
Borkovsky, Ron - BSc, MA, PhD
Bova, Francesco - BComm, MPH, MBA, MA, PhD
Buti, Sabrina - BEc, MMath, MEc, PhD
Carr, Melanie - MD
Christianson, Marlys - MD, PhD
Edwards, Alexander - MS, MAcct, PhD
Elkamhi, Redouane - BE, MBA, PhD
Feinberg, Matthew - BA, MEd, PhD
Harvey, Lisa - BBA
Hirsh, Jacob - BSc, MA, PhD
Hoffman, Mitchell - AM
Kang, Sonia - BSc, MA, PhD
Khan, Michael - BCom
Kitunen, Joan - BBM, CA, CPA
Losell, Donna - BA, MBA
MacKay, Alexandra - BSc, MA, PhD (**Academic Director, MFin Program**)
Malekian, Azarakhsh - BSc, MS, PhD
Oesch, John - BS, MSc, MBA, MEd, PhD
Ornthalalai, Chayawat - BEng, PhD
Powers, Richard - BPHE, BA, LLB, MBA
Romero Yanez, Gonzalo - BS, BS, PhD
Simutin, Mikhail - BA, PhD
Stalk, Jr., George - BS, MBA, MS
Stapleton, Maureen - MBA
Stojanovic, Dragan - BComm
Tolias, Fotini - BA, MBA
Webb, Ryan - BA, MA, PhD
Wiecek, Irene - BComm, CA, CPA
Yang, Liyan - BA, MA, PhD
Zuliani, Elisa - BBM, CA

Management, Tri-campus

Faculty Affiliation

Management, Tri-campus

Degree Programs

Management

PhD

Fields:

Accounting
Business Economics
Finance
Organizational Behaviour and Human
Resource Management
Marketing
Operations Management
Strategic Management

Collaborative Programs

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

1. **Environmental Studies**
 - Management, PhD
2. **Global Health**
 - Management, PhD

Overview

The Graduate Department of Management offers a world-class doctoral program, the **Doctor of Philosophy**. The PhD program offers specialization in seven different fields: Accounting, Business Economics, Finance, Organizational Behaviour and Human Resource Management, Marketing, Operations Management, and Strategic Management.

Contact and Address

Graduate Department of Management

Web: www.rotman.utoronto.ca/Degrees/PhD.aspx

Email: shirley.vanderpuye@rotman.utoronto.ca

Telephone: (416) 978-4226

Rotman School of Management
University of Toronto
105 St. George Street
Toronto, Ontario M5S 3E6
Canada

Degree Programs Management

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants to all fields must also satisfy the Rotman School's additional admission requirements stated below.
- 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, then 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.
- In exceptional cases, and at the discretion of the Rotman School, admission to the program by direct-entry may be approved for applicants with an appropriate bachelor's degree with high standing (a least an A- average in courses relevant to the discipline) from a recognized university.
- Applicants should provide:
 - transcripts from each post-secondary institution attended
 - a letter of intent for applying to the PhD program
 - an updated curriculum vitae (CV)
 - two reference letters
 - a valid GMAT or GRE score
 - proof of English-language proficiency, if applicable.

Program Requirements

- Students are expected to be qualified in the three basic disciplines essential to the study of management: economics, behavioural science, and quantitative analysis/statistics.
- During all years of study, students must maintain residency.
- Students in all fields normally complete coursework in a major field and two minor fields during the first two years in the program. In subsequent years of study, students concentrate on deepening knowledge through additional coursework and on generating unprecedented insights through research that culminates in a written doctoral thesis.
- Full-time students must complete a minimum of 4.0 full-course equivalents (FCEs) to satisfy requirements for one major field and two minor fields of study. Direct-entry students must complete an additional 2.0 FCEs within Year 1 of their program.

Degree and Diploma Programs by Graduate Unit

- 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.
- The two minor fields are usually taken in cognate departments. Each minor field comprises at least 1.0 FCE.
- Upon completion of the courses in the major and minor fields, students are expected to pass comprehensive examinations in the major field.
- Successful completion of the required course RSM 3080H *Research Methods in Business*.
- A thesis embodying the results of original investigation must be submitted and defended at a Doctoral Final Oral Examination in accordance with the regulations of the School of Graduate Studies.

Program Length

4 years full-time (students requiring additional courses may take an additional year);
5 years direct-entry

Time Limit

6 years full-time;
7 years direct-entry

Courses for the PhD

The department should be consulted at the onset of 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 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 3029H	Special Topics 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 3039H	Special Topics in Finance
RSM 3041H	Seminar in Operations Management
RSM 3045H	Advanced Topics in Operations Management I
RSM 3046H	Advanced Topics in Operations Management II
RSM 3049H	Special Topics in Operations Management
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 3059H	Special Topics in Marketing
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
RSM 3064H	Advanced Topics in Organizational Behaviour
RSM 3065H	New Directions in Organizational Research
RSM 3069H	Special Topics in Organizational Behaviour and Human Resources Management
RSM 3080H	Research Methods in Business
RSM 3090H	Reading Course in Approved Field
RSM 3091H	Reading Course in Approved Field

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

Graduate Faculty

Full Members

Afeche, Philipp - BA, MS, PhD
 Aggarwal, Pankaj - BEc, MBA, MBA, PhD
 Agrawal, Ajay - BAsC, MEng, MBA, PhD
 Aivazian, Varouj - BS, MA, PhD
 Amburgey, Terry - BS, MA, PhD
 Amernic, Joel - BSc, MBA, CA
 Averbakh, Igor - MSc, PhD
 Bar-Isaac, Yeheskel (Heski) - BA, MSc, PhD
 Baron, Opher - BSc, MBA, PhD
 Baum, Joel - BA, MBA, PhD (**Associate Dean, Faculty**)
 Berdahl, Jennifer - BA, MA, MA, PhD
 Berman, Oded - BA, PhD
 Blum, Bernardo Soares - BA, MA, MA, PhD
 Booth, Laurence - BSc, MBA, MA, DBA
 Borins, Sandford - BA, PhD
 Brean, Donald - BA, MBA, MSc, PhD
 Brooks, Leonard - BCom, MBA, CA, CPA
 Callen, Jeffrey - BM, MBA, DPhil
 Casciaro, Tiziana - BA, MS, PhD
 Ching, Andrew Tat Tin - BA, MA, MA, PhD
 Christoffersen, Peter - BA, PhD
 Christoffersen, Susan - BA, MA, PhD
 Corts, Kenneth - BA, MA, PhD (**Vice-Dean, Faculty and Research**)
 Cote, Stephane - BSc, MA, PhD
 Cunningham, William - BA, MPH, MS, MA, PhD
 Dart, Beatrix - MSt, MEc, PhD (**Associate Dean, EMBA and OMNIUM Programs**)
 Davydenko, Sergei - MA, MSc, PhD
 De Franco, Gus - BA, MBA, PhD
 De Voe, Sanford - BA, PhD
 Doidge, Craig Andrew - BComm, MSc, PhD
 Dungan, D Peter - BA, MA, PhD
 Dyck, Alexander - BA, PhD
 Elitzur, Rami - BA, MBA, PHM, PhD
 Franco, April - BPhil, MEc, PhD
 Frazer, Garth - BE, BM, MPH, MA, PhD
 Galasso, Alberto - PhD
 Gans, Joshua - BEc, PhD
 Golden, Brian - BS, MS, PhD
 Goldfarb, Avi - BA, MA, PhD
 Goldreich, David - BS, MS, MS, PhD (**Academic Director, Extended Full-Time MBA Program**)
 Han, Bing - PhD
 Han, Lu - BA, MA, PhD
 Hawkins, Scott - BA, MS, PhD
 Hejazi, Walid - BA, MA, PhD
 Hope, Ole-Kristian - MBA, PhD
 Horstmann, Ignatius - BA, PhD
 Hossain, Tanjim - PhD
 Hull, John - BA, MA, MA, PhD
 Hyatt, Douglas - BA, MA, PhD
 Kan, Raymond - BBA, MBA, DPhil
 Kaplan, Sarah - BA, MA, PhD
 Kirzner, Eric - BA, MBA

Kramer, Lisa - BBA, PhD
 Krass, Dmitry - BS, MEng, PhD
 Lederman, Mara - BA, PhD
 Li, Yue - BSc, MBA, PhD
 Liao, Wei-Yi (Scott) - MA, PhD
 Lu, Hai - MBA, PhD, PhD
 Macklem, Tiff - BA, MA, PhD (**Dean and Graduate Chair**)
 Mahrt-Smith, Jan - BSc, PhD (**Academic Director, Full-Time MBA Program**)
 Martin, Roger - AB, MBA
 Mazar, Nina - MBA, PhD
 McCurdy, Thomas - BA, MA, PhD
 McEvily, William - BS, PhD
 McGahan, Anita - BA, MA, MBA, PhD (**Associate Dean, Research; Director PhD Program**)
 Mehta, Nitin - BTech, MS, MS, PhD
 Milner, Joseph - BSc, MS, PhD
 Mitchell, Matthew - BS, MA, PhD
 Mitchell, William - BBA, PhD
 Mohanram, Partha Sarathy - BTech, MBA, PhD
 Moldoveanu, Mihnea (Michael) - BSc, MSc, DBA (**Vice-Dean, Learning and Innovation**)
 Moorthy, Sridhar - BSc, MBA, MS, PhD
 Oxley, Joanne - BSc, MA, MBA, PhD
 Pauly, Peter - MA, PhD
 Reuber, Rebecca - BA, MSc, PhD
 Richardson, Gordon - BA, MBA, PhD, CA
 Rotenberg, Wendy - BA, MBA, PhD
 Rowley, Timothy - BA, MBA, PhD
 Ryall, Michael - BS, MBA, PhD
 Shi, Mengze - BSc, MBA, PhD
 Silverman, Brian - AB, MA, SM, PhD
 Smieliauskas, Waldemar - BS, MS, PhD
 Soberman, David - BSc, MBA, PhD
 Soman, Dilip - BE, MBA, PhD
 Stabile, Mark - BA, MA, PhD
 Stark, Andrew - BA, MSc, AM, PhD
 Strange, William - BA, MA, PhD
 Tombak, Mihkel - BS, MBA, AM, PhD
 Treffer, Daniel - BA, MPH, PhD
 Tsai, I-Wen (Claire) - BBA, MBA, PhD
 Wensley, Anthony - MA, MA, MBA, PhD
 Wong, Moon Hung (Franco) - BA, MA, PhD
 Zhang, Ping - BA, MACct, MA, PhD
 Zhao, Min - BA, MA, PhD

Members Emeriti

Fisher, James - BA, MBA
 Fleck, James - BA, DBA
 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

Degree and Diploma Programs by Graduate Unit

Associate Members

Borkovsky, Ron - BSc, MA, PhD
Bova, Francesco - BComm, MPH, MBA, MA, PhD
Buti, Sabrina - BEc, MMath, MEc, PhD
Campbell, James David - BEc, MA, PhD
Cen, Ling - BEc, MEc, PhD
Chandra, Ambarish - BMath, MEc, PhD
Christianson, Marlys - MD, PhD
Edwards, Alexander - MS, MAcct, PhD
Elkamhi, Redouane - BE, MBA, PhD
Feinberg, Matthew - BA, MEd, PhD
Hasler, Michael N. - BS, MSc, ScD
Hoffman, Mitchell - AM
Landry, Peter - BS, MS, PhD
Li, Kevin - PhD
Liu, Christopher - BA, PhD, DBA
Maglio III, Sam James - AB, PhD
Malekian, Azarakhsh - BSc, MS, PhD
McElheran, Kristina S. - BA, AB, AM, PhD
Ornthanalai, Chayawat - BEng, PhD
Osborne, Matthew James - BA, PhD
Romero Yanez, Gonzalo - BS, BS, PhD
Virag, Gabor - BA, MA, PhD
Vyas, Dushyantkumar - PhD
Wahid, Aida - BA, MA, PhD
Webb, Ryan - BA, MA, PhD
Ye, Minlei - PhD

Management & Innovation

Faculty Affiliation

University of Toronto Mississauga (UTM)

Degree Programs

Biotechnology

MBiotech

Management & Professional Accounting

MMPA

Management of Innovation

MMI

Sustainability Management

MScSM

Concentrations:
Management
Science

Diploma Programs

Investigative & Forensic Accounting

DIFA

Overview

The Institute for Management & Innovation (IMI) offers sector-specific professional programs in management as well as cross-disciplinary, experiential professional programs that combine the study of a profession, science, or industrial sector with management. It fosters the development of mission-focused graduates who contribute innovatively to a profession, science, or industrial sector.

The **Master of Biotechnology** (MBiotech) is an interdisciplinary course-based professional degree program. Students come from varied backgrounds with the common goal of pursuing a career in the biotechnology, medical device, and pharmaceutical industries.

The program meets the evolving needs of students and this global industry sector. Lecturers from various University of Toronto Faculties and from biotechnology and pharmaceutical industries and governmental agencies provide a truly interdisciplinary learning experience. Introductory laboratory courses and a year-long work internship round out the broadly based learning environment.

The **Master of Management & Professional Accounting** (MMPA) is designed to educate future leaders of the accounting profession at the master's

Degree and Diploma Programs by Graduate Unit

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 **Master of Management of Innovation** (MMI) program is designed for students with a background in science and engineering. It is an accelerated 12-month professional degree for individuals pursuing management careers in technology-focused organizations. The MMI curriculum provides a strong foundation in economic analysis, technology management, business strategy, finance, accounting, marketing, and policy.

The **Master of Science in Sustainability Management** (MScSM) is an interdisciplinary, course-based professional program. The program provides education that integrates knowledge from management, social, and natural sciences to address sustainability issues. The MScSM provides a strong foundation in sustainability management while offering an opportunity to specialize in a management or science concentration. The program is designed for students from diverse educational backgrounds such as management, social science, natural science, and engineering. The program was developed in consultation with leaders and prospective employers in business, non-profit, research, and government organizations.

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, advice in disputes, and preparation and delivery of information to the courts. For students who are graduate professional accountants, the diploma program is recognized as an excellent educational preparation for recognition as an expert in IFA.

Contact and Address

Institute for Management and Innovation

Web: www.utm.utoronto.ca/imi

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Degree and Diploma Programs by Graduate Unit

University of Toronto Mississauga
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Mississauga, Ontario
L5L 1C6 Canada

Biotechnology

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Master of Biotechnology Program
University of Toronto Mississauga
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3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Management & Professional Accounting

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Master of Management & Professional Accounting Program
University of Toronto Mississauga
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Management of Innovation

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Master of Management of Innovation
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Sustainability Management

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Investigative & Forensic Accounting

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Fax: (905) 569-4306

Diploma in Investigative & Forensic Accounting Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Degree Programs Biotechnology

Master of Biotechnology

Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management and Innovation's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university in any area of biological sciences, chemistry, engineering, or related field with a minimum mid-B standing in the final two years of study.
- Applicants who have completed their studies outside of Canada must also submit their Graduate Record Examination (GRE) Subject Test scores and meet the SGS minimum standards for English proficiency.
- The MBiotech program also evaluates applicants on their letter of intent, CV, three references, and both a science and business interview.

Program Requirements

- The program is a full-time, course-based master's degree which is launched in May each year.
- Students are required to complete 9.0 graduate full-course equivalents (FCEs) over a 24-month period:
 - 6.0 FCEs science credits (includes credits for Seminar and Placement)
 - 2.0 FCEs business credits
 - 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.

Program Length

6 sessions full-time (typical registration sequence: S/F/W/S/F/W)

Time Limit

3 years full-time

Degree and Diploma Programs by Graduate Unit

Course List

Required Courses

A general description of each required course is posted on the website.

BTC 1600H	Seminar in Bioscience/Biotechnology I
BTC 1610H	Seminar in Bioscience/Biotechnology II
BTC 1700H	Molecular Biology Laboratory
BTC 1710H	Biomaterials and Protein Chemistry Theory
BTC 1720H	Biomaterials and Protein Chemistry Lab
BTC 1800H	Biotechnology in Medicine
BTC 1810H	Biotechnology and Ventures
BTC 1820H	Biotechnology in Agriculture and Natural Products
BTC 1900Y ⁰	Work Term I
BTC 1910Y ⁰	Work Term II
BTC 2000H	Effective Management Practices
BTC 2010H	Fundamentals of Managerial Concepts
BTC 2020H	Society, Organizations, and Technology
BTC 2030H	Management of Technological Innovation

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

Elective Courses

BTC 1830H	Medical and Scientific Challenges in Marketing Therapeutics
BTC 1840H	Patent Law for the Life Sciences
BTC 1850H	Creating Life Science Products
BTC 1860H	Generations of Advanced Medicine: Biologics in Therapy (GAMBiT)
BTC 1920Y	Work Term III
BTC 2040H	Change Management
BTC 2100Y	Topics in Biotechnology
BTC 2110H	Topics in Biotechnology
BTC 2120H	Topics in Biotechnology

Other graduate courses approved by Program Directors.

Program Committee

Cell and Systems Biology

Lange, Angela - BSc, PhD

Revers, Leigh - MA, DPhil (**Associate Director**)

Westwood, J. Timothy - BSc, MSc, PhD

Chemistry

Krull, Ulrich - BSc, MSc, PhD, AstraZeneca Professor of Biotechnology

Prosser, Scott - BSc, MSc, PhD (**Director**)

Management

Tombak, Mihkel - BASc, MBA, AM, PhD

Additional faculty are selected from Cell and Systems Biology, Chemistry, and related departments as well as from experts in industry and government.

Management & Professional Accounting

Master of Management & Professional Accounting

Minimum Admission Requirements

27- Month Program; 24- and 12-Month Advanced-Standing Options

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management and Innovation's additional admission requirements stated below.
- An appropriate bachelor's degree with a standing equivalent to at least a University of Toronto mid-B.
- Satisfactory Graduate Management Admission Test (GMAT) score.
- Proof of English proficiency if the applicant's first language is not English. See details on English-language requirements in General Regulations section 5.5.

Eligibility for Admission to the Advanced-Standing 24-Month Option

- Applicants who have previously completed MGT 1210H, MGT 1211H, MGT 1221H, MGT 1222H, MGT 1250H, and MGT 1382H, or equivalent, with a grade of B- or better, may be eligible for admission to the 24-month option.

Eligibility for Admission to the Advanced-Standing 12-Month Option

- Applicants from a BCom (Accounting Specialist) program, with a CGPA of B+ or higher, who have previously completed MGT 1210H, MGT 1211H, MGT 1221H, MGT 1222H, MGT 1272H, MGT 1323H, MGT 1330H, MGT 1382H, MGT 2014H, MGT 2205H, MGT 2206H, MGT 2207H, MGT 2224H, MGT 2225H, MGT 2250H, MGT 2251H, MGT 2260H, MGT 2261H, and MGT 2301H, or equivalent, with a grade of B- or better, may be eligible for admission to the 12-month option.

Degree and Diploma Programs by Graduate Unit

- Applicants to the 12-month option must have completed the courses listed while in a program accredited by the Chartered Professional Accountants of Canada.

Program Requirements

27-Month Program

- The program runs for 27 months covering seven sessions of full-time study.
- The program requires the successful completion of 18.0 full-course equivalents (FCEs) in required courses, as listed below.
- Students will also complete two co-op work placements (MGT 1090H and MGT 2090H) in accounting or finance-related areas.

Required Course List

Notations for all courses are indicated in parentheses following the course code and are determined as follows:

Credit Hours	Notation
0	CR/NCR (Credit/No Credit)
1	one module
2	two modules
3	three modules

One module equals five weeks with three contact hours per week. One module equals 0.25 FCE.

MGT 1090H(0) ⁺	Accounting Work-Term Course I
MGT 1160H(1)	Communications
MGT 1181H(1)	Introduction to Integration and Professional Decision Making
MGT 1202H(2)	Ethics and Governance
MGT 1210H(2)	Managerial Economics
MGT 1211H(2)	Economic Environment of Business
MGT 1221H(2)	Financial Accounting I
MGT 1222H(2)	Managerial Accounting
MGT 1241H(2)	Operations Management
MGT 1250H(2)	Marketing
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 1362H(3)	Managing People in Organizations
MGT 1382H(3)	Statistics for Management

MGT 2004H(2)	Advanced Concepts in Strategic Management
MGT 2014H(2)	The Legal Environment of Professions and Corporations
MGT 2090H(0) ⁺	Accounting Work-Term Course II
MGT 2200H(1)	Government and Not-for-Profit Accounting, Reporting, and Control
MGT 2205H(3)	Advanced Financial Accounting
MGT 2206H(3)	Taxation I
MGT 2207H(3)	Taxation II
MGT 2224H(2)	Computer Auditing
MGT 2225H(2)	Advanced Auditing Topics
MGT 2250H(3)	Financial Reporting I
MGT 2251H(3)	Financial Reporting II
MGT 2260H(2)	Management Control
MGT 2261H(2)	Advanced Management Accounting
MGT 2280H(2)	Accounting Theory and Research
MGT 2281H(1)	Mergers, Acquisitions, and Valuations
MGT 2282H(2)	Integration and Professional Decision Making Initiatives I
MGT 2283H(2)	Integration and Professional Decision Making Initiatives II
MGT 2284H(1)	Capstone—Integrative Board Report
MGT 2301H(2)	Financial Management

Plus one of the following electives:

MGT 2070H(1)	Management Consulting
MGT 2208H(1)	Taxation III

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

Program Length

7 sessions full-time (typical registration sequence: S/F/W/S/F/W/S)

Time Limit

3 years

Program Requirements for the Advanced-Standing 24-Month Option

The program runs for 24 months, covering six sessions of full-time study, and requires:

- the successful completion of 14.75 full-course equivalents (FCEs) in required courses, as follows: MGT 1160H, MGT 1181H, MGT 1202H, MGT

1241H, MGT 1272H, MGT 1301H, MGT 1323H, MGT 1330H, MGT 1362H, MGT 2004H, MGT 2014H, MGT 2200H, MGT 2205H, MGT 2206H, MGT 2207H, MGT 2224H, MGT 2225H, MGT 2250H, MGT 2251H, MGT 2260H, MGT 2261H, MGT 2280H, MGT 2281H, MGT 2282H, MGT 2283H, MGT 2284H, MGT 2301H, and one of MGT 2070H or MGT 2208H;

- two co-op work placements (MGT 1090H and MGT 2090H) in accounting or finance-related areas.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years

Program Requirements for the Advanced-Standing 12-Month Option

The program runs for 12 months, covering three sessions of full-time study, and requires:

- the successful completion of 6.5 full-course equivalents (FCEs) in required courses, as follows: MGT 1160H, MGT 1181H, MGT 1202H, MGT 1241H, MGT 1250H, MGT 1301H, MGT 1362H, MGT 2004H, MGT 2200H, MGT 2208H, MGT 2280H, MGT 2281H, MGT 2282H, MGT 2283H, MGT 2284H; and;
- one co-op work placement (MGT 2090H) in accounting or finance-related areas taken in the Winter session.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years

Management of Innovation

Master of Management of Innovation

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management and Innovation's additional admission requirements stated below.
- 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 resumé, a letter of intent, and at least two academic letters of reference must be submitted

Degree and Diploma Programs by Graduate Unit

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 and a 4-month experiential term 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 three years from the date of first enrolment.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Course List

Required Core Courses

MMI 1010H	Prices and Markets
MMI 1020H	Introduction to Big Data Analysis
MMI 1030H	Marketing Science
MMI 1050H	Accounting and Negotiations
MMI 1060H	Finance
MMI 1070H	Economics of Business Strategy
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.

Sustainability Management

Master of Science in Sustainability Management

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management and Innovation's additional admission requirements stated below.
- An appropriate undergraduate degree from a recognized university in any area of natural science, social science, management, and engineering or any management, environment, or natural resource-driven background with a standing equivalent to at least a mid-B in the final year of the program.
- Successful completion of an undergraduate statistics or mathematics course (0.5 full-course equivalent [FCE] or equivalent).
- Résumé/curriculum vitae (CV).
- Letter of intent outlining interest in sustainability issues (750 words).

Program Requirements

Students are required to select a concentration (either Management or Science) and complete the following:

- A total of 9.0 FCEs
 - 10 required courses (6.0 FCEs) including *Capstone Course* (SSM 1090H) and *Research Paper* (SSM 1100Y)
 - A summer internship placement (two to four months)
 - Six elective courses (3.0 FCEs) selected by chosen concentration—see below:
- **Management** concentration: 2.0 FCEs from the selection of Management elective courses and 1.0 FCE from the Science electives
- **Science** concentration: 2.0 FCEs from the Science elective courses and 1.0 FCE from the Management electives.

Program Path

Year 1: Fall

SSM 1010Y	Principles of Sustainability Management
SSM 1020H	Decision Making for Sustainability Management
SSM 1040H	Managerial Economics for Sustainability Management
SSM 1050H	Ecosystem Science

Year 1: Winter

SSM 1030H	Environmental Science
SSM 1060H	Managing Sustainable Organizations

Plus 0.5 FCE elective

Summer

SSM 1110H	Sustainability Management Internship
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Year 2: Fall

SSM 1070H	Sustainability Law and Policy
SSM 1080H	Strategies for Sustainability Management
SSM 1100Y	Research Paper

Plus 1.5 FCE elective

Year 2: Winter

SSM 1090H	Capstone Course—Sustainable Enterprise
SSM 1100Y	Research Paper

Plus 1.0 FCE elective

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Course List

Required Courses

SSM 1010Y	Principles of Sustainability Management
SSM 1020H	Decision Making for Sustainability Management
SSM 1030H	Environmental Science
SSM 1040H	Managerial Economics for Sustainability Management
SSM 1050H	Ecosystem Science
SSM 1060H	Managing Sustainable Organizations
SSM 1070H	Sustainability Law and Policy
SSM 1080H	Strategies for Sustainability Management
SSM 1090H	Capstone Course—Sustainable Enterprise
SSM 1100Y	Research Paper

Elective Courses

Course selections need to be approved in advance by the Program Director.

Science Electives

JPG 1407H	Efficient Use of Energy
JPG 1408H	Carbon Free Energy

EES 1107H	Remediation Methods
EES 1117H	Climate Change and Impact Assessment
EES 1125H	Contaminated Site Remediation
ENV 1002H	Environmental Policy
ENV 1704H	Environmental Risk Analysis and Management

Management Electives

SSM 2010H	Marketing in Sustainability Management
SSM 2020H	Sustainability Ethics
SSM 2030H	Advanced Sustainability Management
SSM 2040H	Applied Sustainability Management
ENV 1707H	Environmental Finance and Sustainable Investing
EES 1124H	Environmental Project Management
ECO 2908H	Environmental and Resource Economics
MGT 2918H	Multidisciplinary Special Topics
RSM 2216H	Special Topics in Accounting

Diploma Programs Investigative & Forensic Accounting

Diploma of Investigative & Forensic Accounting

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management and Innovation's additional admission requirements stated below.
- 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

- Ten 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

Degree and Diploma Programs by Graduate Unit

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.

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

The 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

Aggarwal, Pankaj - BEc, MBA, MBA, PhD
Aivazian, Varouj - BS, MA, PhD
Brooks, Leonard - BCom, MBA, CA, CPA (**Program Director**)
Daniere, Amrita - AB, PhD
Galasso, Alberto - PhD
Kant, Shashi - BE, MA, PhD
Krull, Ulrich - BSc, MSc, PhD
Li, Yue - BSc, MBA, PhD
Park, Andreas - MEc, MPH, PhD
Prosser, Scott - BSc, MSc, DPhil
Rotenberg, Wendy - BA, MBA, PhD
Smieliauskas, Waldemar - BS, MS, PhD
Toh, Soo Min - BBA, PhD
Tombak, Mihkel - BS, MBA, AM, PhD
Wensley, Anthony - MA, MA, MBA, PhD

Degree and Diploma Programs by Graduate Unit

Zweig, David - BA, MAsC, PhD

Associate Members

Allen, Guy - BA, MA, PhD

Armstrong, Ann - MBA, PhD

Georgopoulos, George - BA, MA, PhD

Hirsh, Jacob - BSc, MA, PhD

Iqbal, Abraham - BCom, MA, CPA

Kang, Sonia - BSc, MA, PhD

Kitunen, Joan - BBM, CA, CPA

Lehnherr, Igor - BSc, PhD

Osborne, Matthew James - BA, PhD

Parker, Jayson - PhD, PhD

Parkinson, John - BA, MA, PhD

Radhakrishnan, Phanikiran - DPhil

Revers, Leigh - PhD

Schneider, Manfred - BCom, MBA, JD, CA, CPA

Schumann, Eckhard - BComm, CA, CPA

Virag, Gabor - BA, MA, PhD

Vyas, Dushyantkumar - PhD

Wahid, Aida - BA, MA, PhD

Wiecek, Irene - BComm, CA, CPA

Ye, Minlei - PhD

Zuliani, Elisa - BBM, CA

Materials Science and Engineering

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Materials Science and Engineering

MASc	<i>Emphasis:</i> Sustainable Energy
MEng	<i>Emphases:</i> Advanced Water Technologies and Process Design Sustainable Energy
PhD	<i>Emphasis:</i> Sustainable Energy

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
3. **Optics**
 - Materials Science and Engineering, MASc

Overview

The Department of Materials Science and Engineering (MSE) 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, properties, and application of advanced materials in such fields as nanomaterials, surface chemistry, energy, sustainability, optoelectronics, biomaterials, nuclear materials, metalmatrix composites (MMCs), metallic glasses, corrosion, fatigue, phase transformations, and

Degree and Diploma Programs by Graduate Unit

solidification. These studies are all related to the general problem of understanding structure-property-processing-performance relationships in materials.

Contact and Address

Web: www.mse.utoronto.ca
Email: materials.engineering@utoronto.ca
Telephone: (416) 978-3012
Fax: (416) 978-4155

Department of Materials Science and Engineering
University of Toronto
Wallberg Building
Room 140, 184 College Street
Toronto, Ontario M5S 3E4
Canada

Degree Programs Materials Science and Engineering

Master of Applied Science

Minimum Admission Requirements

- Students are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Materials Science and Engineering's additional admission requirements stated below.
- For students whose primary language is not English, the department requires a Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - paper-based TOEFL: minimum score of 580 and 4 on the Test of Written English (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 full-course equivalents (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, plus three half courses, one of which is normally chosen from the list of MSE graduate course offerings.
- 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.
- Students in the MASc program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Degree and Diploma Programs by Graduate Unit

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Engineering

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Materials Science and Engineering's additional admission requirements stated below.
- For students whose primary language is not English, the department requires a Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - paper-based TOEFL: minimum score of 580 and 4 on the Test of Written English (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.
- The program may be taken on a full-time, extended full-time, or part-time basis.
 - Full-time option: students normally complete the requirements in three sessions (one year).
 - Extended full-time option: students are expected to complete the requirements in six sessions (two years) and are limited to six half courses per year and three half courses per session.
 - Part-time option: students are limited to four half courses per year and two half courses per session. Students normally complete the requirements in nine sessions (three years).
- Students in the MEng program have the option of completing an emphasis in Advanced Water Technologies and Process Design or Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S);

9 sessions part-time

Time Limit

3 years full-time and extended 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. Applicants must also satisfy the Department of Materials Science and Engineering's additional admission requirements stated below.
- 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 already completed in the MASc program.
- For students whose primary language is not English, the department requires a Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - paper-based TOEFL: minimum score of 580 and 4 on the Test of Written English (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 full-course equivalents (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 chosen from the list of MSE graduate course offerings. In the PhD program, the departmental seminar comprises a minimum of two seminars presented to the academic staff/students of MSE.
- A general Qualifying Examination must be scheduled and taken within 12 months of initial registration. In case of failure, one further attempt within three months is allowed, no later than within 15 months of registration. No further attempts are permitted.
- The Qualifying Examination consists of:
 - A report (25 to 30 pages) of research to date, in the form of a dossier.
 - A presentation (20 to 25 minutes) summarizing research, with particular emphasis on providing a critical assessment of the literature in the field, a central hypothesis of thesis, proposed methodology, and recent experimental progress.

- An oral examination, immediately following the presentation, by the Qualifying Examination committee who will ask the candidate questions pertaining to either the presented material, or related questions in materials science. The student is expected to have a working-level knowledge of the fundamentals of materials science as it pertains to the proposed area of research, and on a broader basis, at the level of a second-year undergraduate student in Materials Science.
- All required coursework, Graduate Seminar excepted, must be completed in order to take this examination.
- **Note:** students wishing to bypass (transfer) to PhD, no later than 12 months after initial registration in MASc, must also fulfil these Qualifying Examination requirements.
- 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.
- Students in the PhD program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Emphasis: Advanced Water Technologies and Process Design

Master of Engineering (MEng) students must successfully complete four core courses (2.0 full-course equivalents [FCEs]) and one specialization course (0.5 FCE), which are counted towards the total 5.0 FCEs required for the MEng program.

- Four core courses (2.0 FCEs):
 1. CHE 1150H *Industrial Water Treatment*
 2. CIV 1319H *Chemistry and Analysis of Water and Waste*
 3. STA 1004H *Introduction to Experimental Design, and*
 4. at least one of the following (either of the other two can count as the specialization course):
 - CIV 1308H *Physical/Chemical Treatment Processes*
 - CIV 541H *Environmental Biotechnology*
 - CIV 1311H *Advanced and Sustainable Drinking Water Treatment*
- One specialization course selected from the following (0.5 FCE):
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*

Degree and Diploma Programs by Graduate Unit

- CIV 1303H *Water Resources Systems Modeling*
- CHE 565H *Aqueous Process Engineering*
- CHE 1213H *Corrosion*
- CHE 1430H *Hydrometallurgy Theory and Practice*
- JNC 2503H *Environmental Pathways*, or one of the remaining courses from item 4.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, the student will receive a Letter of Completion.

Emphasis: Sustainable Energy

Doctoral-stream (MASc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H,
CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H,
CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H,
ECE 533H, ECE 1055H, ECE 1057H, ECE 1085H, ECE 1086H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,
MSE 558H, MSE 1022H, MSE 1028H

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

Degree and Diploma Programs by Graduate Unit

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 ⁰	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 1032H	Atomistic Modeling of Materials
MSE 1033H	Advanced Rate Phenomena in Materials Processing
MSE 1034H	Directed Readings in Materials Science and Engineering I
MSE 1035H	Directed Readings in Materials Science and Engineering II
MSE 2000H ⁰	Graduate Research Seminar PhD
JMB 1050H	Biological and Bio-inspired Materials
JMZ 1704H	Polymer Process Engineering
JTC 1020H	Ceramics
JTC 1135H	Applied Surface Chemistry

Metallurgy

MSE 504H	Extractive Metallurgy
MSE 1000H ⁰	Graduate Research Seminar MASC
MSE 2000H ⁰	Graduate Research Seminar PhD

MSE 3000Y	MEng Project
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⁰ Course that may continue over a program. The course is graded when completed.

Graduate Faculty

Full Members

Azimi, Gisele - BASc, MASC, PhD
Barati Sedeh, Mansoor - BSc, MASC, PhD
Chan, Warren - BSc, PhD
Chattopadhyay, Kinnor - BEng, MEng, PhD
Coyle, Thomas - BS, BA, ScD (**Associate Chair, Graduate Studies**)
Erb, Uwe - MSc, PhD
Goh, M Cynthia - PhD
Grynpas, Marc - MSc, PhD
Hibbard, Glenn - BASc, PhD
Kherani, Nazir - BASc, MASC, PhD
Lee, Chi-Guhn - DPhil
Lian, Keryn - BE, MASC, MSc, PhD
Lu, Zheng-Hong - BSc, MSc, PhD
Matsuura, Naomi - ME, PhD
Naguib, Hani - BSc, ME, PhD, PEng
Nogami, Jun - BASc, MASC, PhD (**Chair and Graduate Chair**)
Perovic, Doug - BASc, MASC, PhD
Ruda, Harry - BSc, PhD
Sargent, Edward - BEng, PhD
Singh, Chandra Veer - BASc, MTech, PhD
Thorpe, Steven - BASc, MASC, PhD
Wang, Zhirui - BEng, BEng, MASC, PhD

Members Emeriti

Argyropoulos, Stavros - MEng, PhD
Aust, Karl - BASc, MASC, PhD
Franklin, Ursula - PhD
McClean, Alexander - BSc, PhD
North, Thomas - BSc, MSc, PhD
Pilliar, Robert - BASc, PhD
Sommerville, Iain - BSc, PhD, ARCS

Associate Members

Sone, Eli - BSc, MS, PhD
Willett, Thomas - BASc, MASC, PhD

Mathematical Finance

Faculty Affiliation

Arts and Science

Degree Programs

Mathematical Finance

MMF

Overview

Financial engineering is one of the fastest growing areas of applied mathematics. In the **Master of Mathematical Finance** (MMF) 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 crossdisciplinary 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

Web: www.mmf.utoronto.ca

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Degree and Diploma Programs by Graduate Unit

Applicants must also satisfy the graduate unit's additional admission requirements stated below.

- 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 proficiency 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

Degree and Diploma Programs by Graduate Unit

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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

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	Asset Management
MMF 1941H	Stochastic Analysis

MMF 1943Y ⁰	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

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 - BSc, MSc, 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

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, combinatorics, optimization, control theory, dynamical systems, computer algebra, cryptography, and mathematical finance.

More information about this program and courses may be found in the brochure, Graduate Studies in Mathematics at the University of Toronto.

Contact and Address

Web: www.math.utoronto.ca
Email: gradinfo@math.utoronto.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

Degree Programs

Mathematics

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Degree and Diploma Programs by Graduate Unit

Applicants must also satisfy the Department of Mathematics' additional admission requirements stated below.

- Evidence of an excellent academic background and mathematical ability.

Program Requirements

- Full-time students are accepted into a 12-month, 16-month, or 24-month program. The program may be completed on a part-time basis.
- 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.

Program Length

3 sessions full-time 1-year MSc (typical registration sequence: F/W/S);
4 sessions full-time 16-month MSc (typical registration sequence: F/W/S/F);
6 sessions full-time 2-year MSc (typical registration sequence: F/W/S/F/W/S);
6 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. Applicants must also satisfy the Department of Mathematics' additional admission requirements stated below.
- 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

Degree and Diploma Programs by Graduate Unit

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.

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, 1301H, 1600H, and 1601H 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.

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	General Topology
MAT 1300H	Topology I
MAT 1301H	Topology II
MAT 1302H	Combinatorial Theory
MAT 1303H	Combinatorial Designs
MAT 1304H	Topics in Combinatorics
MAT 1305H	Topics in Geometric Topology
MAT 1309H	Geometrical Inequalities
MAT 1312H	Topics in Geometry
MAT 1313Y	Seminar in Geometry
MAT 1314H	Introduction to Noncommutative Geometry
MAT 1318H	Seminar in Geometry and Topology
MAT 1340H	Differential Topology
MAT 1341H	Topics in Differential Geometry
MAT 1342H	Introduction to Differential Geometry
MAT 1343H	Riemannian Manifolds
MAT 1344H	Symplectic Geometry
MAT 1345H	Symplectic Geometry and 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

Degree and Diploma Programs by Graduate Unit

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	Topics in Set Theory
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)

Applied Mathematics

MAT 1500Y	Applied Analysis
MAT 1501H	Applied Analysis I
MAT 1502H	Topics in Geometric 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 1600H	Mathematical Probability I
MAT 1601H	Mathematical Probability II
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

Degree and Diploma Programs by Graduate Unit

MAT 1760H	Computer Algebra
MAT 1761H	Algorithms in Algebraic Geometry
MAT 1839H	Optimization and Control
MAT 1840H	Control Theory
MAT 1841H	Mathematics of Massive Data Analysis: Fundamentals and Applications
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

Individual Reading Courses

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

Graduate Faculty

Full Members

Alexakis, Spyridon - BA, PhD
 Arthur, James - BSc, MSc, PhD
 Bar-Natan, Dror - BSc, PhD
 Bierstone, Edward - BSc, MA, PhD
 Binder, Ilia - PhD
 Bland, John - BSc, MSc, PhD
 Blomer, Valentin - PhD
 Buchweitz, Ragnar-Olaf - ScD, DrHab
 Burchard, Almut - MS, PhD
 Colliander, James - BA, MS, PhD

Elliott, George - BSc, MSc, PhD
 Friedlander, John - BSc, BS, MA, PhD
 Goldstein, Michael - BA, MMath, ScD, PhD
 Graham, Ian - BSc, ScD
 Gualtieri, Marco - BSc, DPhil
 Ivrii, Victor - MA, PhD, DSc
 Jeffrey, Lisa - BA, MA, PhD
 Jerrard, Robert - AB, PhD
 Kamnitzer, Joel - BMath, PhD
 Kapovitch, Vitali - BS, PhD
 Karshon, Yael - PhD
 Khanin, Konstantin - PhD
 Khesin, Boris - MS, PhD
 Khovanskii, Askold - PhD, DSc
 Kim, Henry - BSc, PhD
 Kudla, Stephen - BA, MA, PhD
 McCann, Robert - BS, PhD
 Meinrenken, Eckhard - PhD
 Milman, Pierre - MA, PhD
 Murnaghan, Fiona - BSc, MSc, PhD
 Murty, Vijayakumar - BSc, PhD (**Chair and Graduate Chair**)
 Nabutovsky, Alexander - MSc, PhD
 Nachman, Adrian - BSc, MA, PhD
 Panchenko, Dmitriy - MSc, PhD
 Pugh, Mary - BA, MS, PhD
 Quastel, Jeremy - BSc, MS, PhD
 Repka, Joseph - BSc, PhD
 Rosenthal, Jeffrey - BSc, AM, PhD, FRSC
 Rotman, Regina - BA, PhD (**Coordinator of Graduate Studies**)
 Scherk, John - BSc, MSc, DPhil
 Seco, Luis - PhD
 Selick, Paul - BSc, MSc, PhD
 Sigal, Israel-Michael - BA, PhD
 Sulem, Catherine - MMath, PhD
 Tanny, Stephen - BSc, PhD
 Todorcevic, Stevo - PhD
 Virag, Balint - BA, MA, PhD
 Weiss, William - BSc, MSc, PhD
 Yampolsky, Michael - DPhil
 Young, Robert Ji Wai - BMath, MMath, PhD

Members Emeriti

Akcoglu, Mustafa - MSc, PhD
 Andrews, David - BSc, MSc, PhD
 Barbeau, Edward - BA, MA, PhD
 Bloom, Thomas - BSc, MA, PhD
 Choi, Man-Duen - BSc, MSc, PhD
 Davis, H Chandler - BS, MA, PhD
 Derzko, Nicholas - BSc, PhD
 Eilers, Erich - DrRerNat, DrRerNat
 Fraser, Donald AS - BA, MA, PhD, FRSC
 Greiner, Peter - BSc, MA, PhD
 Halperin, J Stephen - BSc, MSc, PhD, FRSC
 Haque, Wahidul - MA, MS, PhD
 Jurdjevic, Velimir - BS, MS, PhD
 Kupka, Ivan - BSc, PhD, PhD
 Lorimer, Joseph - BSc, MSc, PhD

Degree and Diploma Programs by Graduate Unit

Masson, David - BSc, MSc, PhD
McCool, James - BSc, PhD
Mendelsohn, Eric - BSc, MSc, PhD
Murasugi, Kunio - BSc, DSc
Rooney, Paul - BSc, PhD
Rosenthal, Peter - BS, MA, PhD
Sen, Dipak - MSc, DSc
Sharpe, Richard - BSc, MA, PhD
Sherk, F Arthur - BA, MSc, PhD
Smith, Stuart - BSc, PhD
Tall, Franklin - AB, PhD

Associate Members

Herzig, Florian - BA, PhD
Tsimmerman, Jacob - BSc, PhD
Wu, Hau-tieng - PhD

Mechanical and Industrial Engineering

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Mechanical and Industrial Engineering

MASc

MEng

PhD

Emphasis:

Sustainable Energy

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. **Engineering Education**
 - Mechanical and Industrial Engineering, MASc, PhD
3. **Environmental Engineering**
 - Mechanical and Industrial Engineering, MASc, MEng, PhD
4. **Health Care, Technology, and Place**
 - Mechanical and Industrial Engineering, PhD
5. **Knowledge Media Design**
 - Mechanical and Industrial Engineering, MASc, MEng, PhD
6. **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 advanced manufacturing and materials engineering; applied mechanics and design; biomedical engineering; energy and environmental engineering; robotics, mechatronics and instrumentation; thermal and fluid sciences engineering; human factors/ergonomics; information engineering; and operations research.

The **Master of Applied Science** (MSc) degree program provides students with an opportunity to pursue research-intensive advanced studies in a particular field of interest.

The **Master of Engineering** (MEng) degree program is designed for students preparing for advanced

professional activity; it is not a research-oriented degree.

The **Doctor of Philosophy** (PhD) 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) 978-7753

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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Mechanical and Industrial Engineering's additional admission requirements stated below.
- 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 2.0 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 *MIE Seminar Series for MASc Students*.

- Students in the MASc program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Engineering

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Mechanical and Industrial Engineering's additional admission requirements stated below.
- 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, extended full-time, or part-time basis.
 - Full-time option: completion is possible in three sessions (one year).
 - Extended full-time option: students are expected to complete the requirements in six sessions (two years) and are limited to six half courses per year and three half courses per session.
 - Part-time option: students are limited to four half courses per year and two half courses per session. Time to completion will be greater than two years.
- Students in the MEng program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions extended full-time (typical registration sequence: F/W/S/F/W/S)

9 sessions part-time

Time Limit

3 years full-time and extended full-time;
6 years part-time

Doctor of Philosophy

The Department of Mechanical and Industrial Engineering offers both full-time and flexible-time PhD program options. Applicants must declare the option for which they wish to apply; transfers between these programs are not permitted.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Department of Mechanical and Industrial Engineering's additional admission requirements stated below.

Full-Time PhD Option

- 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.

Flexible-Time PhD Option

- 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 option must demonstrate that they are actively engaged in professional activities related to their proposed program of study.

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.

Degree and Diploma Programs by Graduate Unit

- **Direct-entry students** admitted with a bachelor's degree are required to complete 3.5 FCEs plus a thesis.
- **Transfer students** must complete a total of 3.5 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.
- Full-time 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. Full-time PhD students who complete the requirement will receive credit for SRD 4444Y *MIE Seminar Series*. Students in the flexible-time option whose professional background is such that they would be deemed to have fulfilled this breadth requirement may be exempted upon consultation with the admissions committee.
- Each PhD student must pass a qualifying examination, annual progress meetings, and the SGS Doctoral Final Oral Examination.
- PhD students are required to present a research seminar during the final year of their studies.
- PhD students (except those in the flexible-time option) are required to be on campus full-time unless special permission is obtained for off-campus study.
- Students in the PhD program have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details below.

Program Length

4 years full-time; 5 years direct-entry; 5 years transfer-from-master's; 6 years flexible-time option

Time Limit

6 years full-time; 7 years direct-entry; 7 years transfer-from-master's; 8 years flexible-time option

Emphasis: Sustainable Energy

Doctoral-stream (MAsc/PhD) students must successfully complete:

- At least three half courses (1.5 full-course equivalents [FCEs]) from the course lists below.
- A thesis in an area of relevance to sustainable energy with approval of the Institute of Sustainable Energy steering committee.

Master of Engineering (MEng) students must successfully complete:

- Four courses (2.0 FCEs) from the following lists below, of which at least one (0.5 FCE) must be a core course.

Core Courses

APS 1032H,
MIE 515H, MIE 1120H

Elective Courses

AER 507H, AER 1304H, AER 1315H, AER 1415H,
CHE 568H, CHE 1053H, CHE 1118H, CHE 1123H, CHE 1142H, CHE 1143H,
CIV 575H, CIV 576H, CIV 577H, CIV 1037H, CIV 1303H,
ECE 533H, ECE 1055H, ECE 1057H, ECE 1085H, ECE 1086H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1715H,
MSE 558H, MSE 1022H, MSE 1028H

Course List

See the departmental website for a schedule of available courses.

Fluid Mechanics

MIE 520H	Biotransport Phenomena
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 1214H	Applied Computational Fluid Dynamics (CFD)
MIE 1222H	Multiphase Flows
MIE 1224H	Heating, Ventilating, and Air Conditioning (HVAC)
MIE 1232H	Microfluidics and Laboratory-on-a-Chip Systems
MIE 1233H	Flow and Transport through Porous Media
MIE 1240H	Wind Power
MIE 1299H	Special Topics in Fluid Mechanics

Mechanics and Materials

MIE 517H	Fuel Cell System
MIE 540H	Product Design
MIE 1128H	Solid Mechanics
MIE 1301H	Theory of Several Complex Variables
MIE 1303H	Fracture Mechanics
MIE 1359H	Engineering Cell Biology and Micro-Nanoengineered Platforms
MIE 1399H	Special Topics in Solid Mechanics

MIE 1706H	Manufacturing of Cellular and Microcellular Polymers
MIE 1713H	Analysis and Design of Joints in Manufactured Products
MIE 1715H	Life Cycle Engineering
MIE 1720H	Creativity in Conceptual Design
MIE 1732H	Tribology
MIE 1740H	Smart Materials and Structures
MIE 1741H	Multiphysics Materials Modelling
MIE 1742H	Composite Materials Design
MIE 1743H	Axiomatic Design Principles for Conceptual and Embodiment Design
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	Advanced Dynamics
MIE 1005H	Theory of Vibrations
MIE 1010H	Acoustics, Noise, and Vibration Control
MIE 1064H	Control Analysis Methods with Applications to Robotics
MIE 1068H	Applied Nonlinear Control
MIE 1070H	Intelligent Robots for Society
MIE 1071H	Advanced Robotics
MIE 1355H	Ultrasonic Non-Destructive Testing
MIE 1718H	Computer Integrated Manufacturing
MIE 1809H	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 1115H	Heat Transfer with Phase Change
MIE 1118H	Partially Ionized Gases
MIE 1120H	Current Energy Infrastructure and Resources
MIE 1122H	Combustion Engine Processes
MIE 1123H	Fundamentals of Combustion

Degree and Diploma Programs by Graduate Unit

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 1132H	Heat Exchanger Design
MIE 1133H	Laser Applications in Engineering
MIE 1199H	Special Topics in Thermal Sciences
MIE 1357H	Laser Biomedical Photoacoustics, Biothermophotonics, and Imaging
MIE 1801H	Advanced Engineering Analysis
MIE 1803H	Advanced MATLAB for Engineers

Human Factors and Ergonomics

MIE 542H	Human Factors Integration
MIE 1402H	Experimental Methods in Human Factors Research
MIE 1403H	Analytical Methods in Human Factors Research
MIE 1407H	Engineering Psychology and Human Performance
MIE 1411H	Design of Work Places
MIE 1412H	Human-Automation Interaction
MIE 1413H	Statistical Models in Empirical Research
MIE 1414H	Human Factors in Transportation
MIE 1415H	Analysis and Design of Cognitive Work

Information Engineering

JMG 2020H	Big Data
MIE 1501H	Knowledge Modelling and Management
MIE 1505H	Enterprise Modelling
MIE 1510H	Formal Techniques in Ontology Engineering
MIE 1512H	Data Analytics
MIE 1513H	Decision Support Systems
MIE 1514H	Systems Design and Engineering: A Product Perspective
MIE 1515H	Information Privacy and Security

Operations Research

Degree and Diploma Programs by Graduate Unit

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 1613H	Discrete Event Simulation
MIE 1615H	Markov Decision Processes
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 1622H	Computational Finance and Risk Management
MIE 1623H	Introduction to Healthcare Engineering
MIE 1699H	Special Topics in Operations Research
MIE 1721H	Reliability
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
APS 1014H	Advanced Project Management
APS 1015H	Social Entrepreneurship
APS 1016H	Financial Management for Engineers
APS 1017H	Supply Chain Management and Logistics
APS 1022H	Financial Engineering 2
APS 1023H	New Product Innovation

APS 1028H	Operations and Production Management for Manufacturing and Services
APS 1034H	Understanding Technological Catastrophes
APS 1202H	Engineering and Sustainable Development
APS 1203H	Teaching Engineering in Higher Education
APS 1204H	Instructional Design in Engineering Education

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
MIE 1758H	Polymers and Composites in Automotive Design and Manufacturing
MIE 1759H	Polymers and Composites Processing in Automotive
MIE 1760H	Metals in Automotive Design and Manufacturing
MIE 1761H	Metal Forming Simulation
MIE 1762H	Centrifugal and Positive Displacement Pumps I

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)

Seminar Courses

Degree and Diploma Programs by Graduate Unit

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
Bazylak, Aimy - PhD
Beck, J. Christopher - BSc, MSc, PhD
Behdinan, Kamran - BASc, BEng, MASC, MASC, PhD, PhD
Ben Mrad, Ridha - BSc, PhD
Benhabib, Bensiyon - BSc, MSc, PhD
Bilton, Amy Marlou - BASc, MS, PhD
Bussmann, Markus - BASc, MASC, PhD
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
Drake, James - BSE, MSc, MBCHB
Ethier, C Ross - BSc, MMath, SM, PhD
Fox, Mark - BSc, PhD
Gruninger, Michael - BSc, MS, PhD
Guenther, Axel - DiplIng, DE
Jamieson, Gregory - BS, MASC, PhD
Kesler, Olivera - BSE, SM, ScD
Kwon, Roy - BA, MS, MSc, PhD
Lee, Chi-Guhn - DPhil (**Coordinator of Graduate Studies**)
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, PEng
Nejat, Goldie - BASc, PhD
Park, Chul - PhD
Shu, Lily - PhD
Simmons, Craig - BSc, MSc, PhD
Sinclair, Anthony - BSc, MSc, PhD
Sinton, David - BASc, MEng, 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
Young, Edmond - BASc, MASC, PhD
Zu, Jean - BEng, PhD (**Chair and Graduate Chair**)

Members Emeriti

Abdelmessih, Abdo - BME, MS, PhD
Baines, William - BSc, MD, PhD
Currie, Iain - BSc, MASC, PhD
Goldenberg, Andrei - BSc, MSc, PhD
Hooper, Frank - DIC, BASc
James, David - BSc, MS, MA, PhD
Keffer, James - BASc, MASC, PhD
Neumann, A Wilhelm - BA, DrRerNat
Paradi, Joseph - BSc, PhD
Posner, Morton - BASc, PhD
Rogers, John - BSc, MS, 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

Atalla, Nouredine - BE, ME, PhD
Croft, Elizabeth - BASc, MASC, PhD
Diller, Eric David - BS, MS, PhD
Dutta, Tilak - MEng
Fels, Deborah - BSc, MHSc, PhD
Frances, Daniel - BASc, MASC, PhD, PEng
Hollands, Justin - PhD
Kim, Michael - PhD
Metcalf, Murray - MS, PhD
Montazeri, Hanif - ME
Munro, Michael - BASc, SM, PhD
Papini, Marcello - BASc, MASC, PhD
Paraschivoiu, Marius - MASC, PhD
Purdie, Thomas -
Sharpe, Michael - BSc, PhD
Zdero, Rodovan - MEng

Medical Biophysics

Faculty Affiliation

Medicine

Degree Programs

Medical Biophysics

MSc

PhD

Combined Degree Program

MD / PhD

Collaborative Programs

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

1. **Biomedical Engineering**
 - Medical Biophysics, MSc, PhD
2. **Cardiovascular Sciences**
 - Medical Biophysics, MSc, PhD
3. **Genome Biology and Bioinformatics**
 - Medical Biophysics, PhD
4. **Human Development**
 - 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, Medical Physics, and Molecular and Structural Biology—is located primarily at the Princess Margaret Cancer Centre, the Toronto Medical Discovery Tower, and the Sunnybrook Research Institute.

The department offers opportunities for research—leading to the **Master of Science** and **Doctor of Philosophy** degrees—in a variety of problems in medical science; projects which cut across the conventional boundaries of biology, physics, engineering, chemistry, 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.info@utoronto.ca

Telephone: (416) 634-8751 or (416) 634-8755

Department of Medical Biophysics
MaRS Centre, Toronto Medical Discovery Tower
101 College Street, Suite 15-701
Toronto, Ontario M5G 1L7
Canada

Degree Programs Medical Biophysics

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Medical Biophysics' additional admission requirements stated below.
- 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 bachelor's degrees from non-Canadian universities are required to provide Graduate Record Examination (GRE) scores (General and Subject) with their application.

Program Requirements

- Students must successfully complete all degree course requirements as outlined in the MBP Graduate Student Handbook. 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department

of Medical Biophysics' additional admission requirements stated below.

- 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 requirements does not guarantee acceptance into the PhD program.

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 by the end of Year 3 of the PhD program.
- Students who transfer/reclassify into the doctoral program or who have completed an 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 at the research institute or on campus and participating full-time until all program requirements are completed.

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

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Course List

MBP 1001Y	Advanced Cell Biology
MBP 1007Y	Fundamentals in Molecular and Cell Biology
MBP 1010H	Quantitative Biology—Statistical Methods
MBP 1011H	Foundations of Bioinformatics (not currently offered; suggested alternative is JTB 2010H Proteomics and Functional Genomics)
MBP 1015Y ⁰	Biophysics Seminar
MBP 1018Y	Oncology
MBP 1022H	Advanced Cell Biology for Physical Scientists
MBP 1023H	Clinical Radiation Physics
MBP 1024Y	Advanced Medical Imaging
MBP 1026H	Clinical Imaging for Physical Scientists
MBP 1027H	Advanced MRI: Signal, Acquisition, and Reconstruction (prerequisite: MBP 1024Y Advanced Imaging or equivalent)
MBP 1028H	Optical, Thermal, and Radiation Biophysics

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

Graduate Faculty

Full Members

Ailles, Laurie - PhD
 Andrews, David - PhD
 Arrowsmith, Cheryl - BSc, PhD
 Attisano, Liliana - BSc, PhD
 Aubin, Jane - BSc, PhD
 Barber, Dwayne - BSc, PhD
 Berinstein, Neil - MD
 Bjerknes, Matthew - BSc, MSc, PhD
 Boutros, Paul - PhD
 Boyd, Norman - MD
 Bristow, Robert Glen - MD, PhD
 Burns, Peter - BSc, BSc, MSc, PhD (**Chair and Graduate Chair**)
 Caldwell, Curtis - BSc, MSc, PhD
 Chakrabarty, Avijit - BSc, MSc, 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

Degree and Diploma Programs by Graduate Unit

Dumont, Daniel - BSc
Edwards, Aled - BSc, PhD
Filmus, Jorge - MSc, PhD
Foster, Stuart - BSc, MSc, PhD
Fraser, Paul - BSc, MSc, PhD
Gallie, Brenda - MD
Garipey, Jean - BSc, PhD
Goertz, David - MSc, PhD
Graham, Simon - BSc, PhD
Hakem, Razqallah - PhD
Hedley, David - MD
Henkelman, Mark - BSc, MSc, PhD
Hill, Richard - BA, PhD
Hudson, Thomas J - MD
Hynynen, Kullervo - BSc, MS, PhD
Ikura, Mitsuhiro - BSc, PhD
Irwin, Meredith - MD
Iscove, Norman - MD, PhD
Jaffray, David - BSc, PhD
Julius, Michael - BSc, PhD
Jurisica, Igor - PhD, CRC
Kamel-Reid, Suzanne - BA, MA, PhD
Keller, Gordon - BSc, PhD
Kerbel, Robert - BSc, PhD
Khokha, Rama - BSc, MSc, PhD (**Vice-Chair**)
Kislinger, Thomas - PhD (**Graduate Coordinator, Biology Stream**)
Koch, Christine - BSc, MD, PhD
Lilge, Lothar - DipPhy, PhD (**Graduate Coordinator, Physics Stream**)
Liu, Fei-Fei - MD
Liu, Geoffrey - BSc, MSc, MD
Liu, Stanley - MD, PhD
Macgowan, Christopher - BSc, MSc, PhD
MacIntosh, Bradley - PhD
Mak, Tak - BSc, MSc, PhD
Malkin, David - MD
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 - MD, PhD
Minkin, Salomon - BSc, MSc, PhD
Moghal, Nadeem - PhD
Moody, Alan - BA, MA, MBBS
Muthuswamy, Senthil - PhD
Neel, Benjamin - MD, PhD
Nieman, Brian - PhD
Ohashi, Pam - BSc, PhD
Pai, Emil - PhD
Paige, Christopher - BSc, PhD
Penn, Linda - BSc, PhD
Pignol, Jean-Phillipe - MD, PhD
Prive, Gil - BSc, PhD
Puri, Mira - BSc, PhD
Rast, Jonathan - MS, PhD
Raught, Brian - BS, MS, PhD

Reedijk, Michael - BSc, MSc, MD, PhD
Roehrl, Michael H.A. - MD, PhD
Rose, David - BA
Ross, Bernard - DiplIng, PhD
Rottapel, Robert - BA, MD
Santyr, Giles - PhD
Schimmer, Aaron - MD, PhD
Sled, John - BASc, MS, PhD
Spaner, David - PhD
Stambolic, Vuk - BSc, MSc, PhD
Stanisz, Greg - PhD
Stefanovic, Bojana - BASc, PhD
Strother, Stephen - BSc, MS, PhD
Tannock, Ian - MD, PhD
Tillier, Elisabeth - BSc, MS, PhD
Tsao, Ming-Sound - BSc, MD
Van Der Kooy, Derek - BSc, MA, PhD
Vitkin, Alex - BASc, MASc, PhD
Wells, Richard - MD, PhD
Wilson, Brian - BSc, PhD
Wong, Chong Shun - MD
Woodgett, James - BSc, PhD
Wouters, Bradley - MSc, PhD
Wright, Graham - BSc, MSc, PhD
Yaffe, Martin - BSc, MSc, PhD
Zacksenhaus, Eldad - PhD
Zheng, Gang - MSc, PhD

Members Emeriti

Archer, Michael - MA, MSc, PhD, DSc
Miller, Richard - BSc, MSc, PhD
Ottensmeyer, Peter - BASc, MA, PhD
Rauth, A Michael - BSc, PhD
Whitmore, Gordon - PhD

Associate Members

Batada, Nizar - PhD
Beatty, Philip - PhD
Chen, Jean - PhD
DaCosta, Ralph - PhD
De Carvalho, Daniel - PhD
Haibe-Kains, Benjamin - PhD
He, Housheng - PhD
Hoffman, Michael - PhD
Lerch, Jason - BA, PhD
Lupien, Mathieu - PhD
Martin, Lisa - BSc, MSc, DPhil
Muthuswamy, Lakshmi - PhD, PhD
Pang, Geordi - PhD
Pugh, Trevor - PhD
Trudel, Suzanne - MSc, MD
Woo, Minna Nancy - MD

Medical Science

Faculty Affiliation

Medicine

Degree Programs

Biomedical Communications

MScBMC

Medical Radiation Sciences

MHSc

Medical Science

MSc

PhD

Translational Research in the Health Sciences

MHSc

Combined Degree Programs

MD / 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. **Developmental Biology**
 - Medical Science, MSc, PhD
9. **Environment and Health**
 - Medical Science, MSc, PhD
10. **Genome Biology and Bioinformatics**
 - Medical Science, PhD
11. **Global Health**
 - Medical Science, PhD
12. **Health Care, Technology, and Place**

Degree and Diploma Programs by Graduate Unit

- Medical Science, PhD
13. **Health Services and Policy Research**
 - Medical Science, MSc, PhD
 14. **Human Development**
 - Medical Science, PhD
 15. **Knowledge Media Design**
 - Medical Science, MSc, PhD
 16. **Musculoskeletal Sciences**
 - Medical Science, MSc, PhD
 17. **Neuroscience**
 - Medical Science, MSc, PhD
 18. **Resuscitation Sciences**
 - Medical Science, MSc, PhD
 19. **Women's Health**
 - Medical Science, MSc, PhD

Overview

The **Master of Science in Biomedical Communications** is a two-year course-based professional graduate program that prepares students for careers in the visual communication of science, medicine, and health. Students in this interdisciplinary program explore the use of images, interactive technologies, and animation/simulation to effectively communicate complex science and health topics to a range of audiences. The program offers two fields: Biomedical Media Design and Biomedical Visualization Design.

The **Master of Health Science in Medical Radiation Sciences** is designed for expert radiation therapy clinicians who wish to expand their academic competence and contributions and advance their clinical skills. The program is delivered in either a two-year full-time or three-year extended full-time (EFT) curriculum. The program comprises 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 inquiry, innovation, knowledge translation, and evidence-based practice. Courses will run primarily online and outside of regular working hours—mornings, evenings, and weekends—with the exception of the clinical practica in the final year that require 16 to 25 hours of clinical practice per week (depending on program selected) 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

Degree and Diploma Programs by Graduate Unit

- 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 unit of choice for MDs seeking training as clinician investigators, and graduates may seek positions as academics and health care professionals in universities, government, and industry. The IMS participates in the Royal College of Physicians and Surgeons Clinical Investigator Program (CIP).

The two-year course-based **Master of Health Science in Translational Research in the Health Sciences** program is designed for students from diverse backgrounds (e.g., medicine, life sciences, social sciences, engineering, design, and communications) who are strongly motivated to advance problem-solving designs in medical and health science contexts. The program combines flexible coursework; team-based, real-world translational challenges; and extensive mentorship and networking. Students gain experience, expertise, and practical insights into the design process, regulatory frameworks, and translational networks and strategies.

Contact and Address

Biomedical Communications Program

Web: www.bmc.med.utoronto.ca
Email: bmc.info@utoronto.ca
Telephone: (905) 569-4849
Fax: (905) 569-4847

Biomedical Communications
University of Toronto Mississauga
HSC 308, 3359 Mississauga Road
Toronto, Ontario L5L 1C6
Canada

Medical Radiation Sciences Program

Web: www.radonc.utoronto.ca
Email: nicole.harnett@utoronto.ca
Telephone: (416) 946-4501, ext 5756
Fax: (416) 946-4442

Medical Radiation Sciences Graduate Program
Department of Radiation Oncology
University of Toronto
149 College Street, 5th Floor
Toronto, Ontario M5S 3E2
Canada

Medical Science Program

Web: www.ims.utoronto.ca
Email: dir.medscience@utoronto.ca

Telephone: (416) 946-8286
Fax: (416) 971-2253

Institute of Medical Science
University of Toronto
Medical Sciences Building
Room 2374, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Translational Research in the Health Sciences Program

Web: trp.utoronto.ca
Email: trp.medscience@utoronto.ca
Telephone: (416) 978-4474
Fax: (416) 971-2253

Institute of Medical Science
University of Toronto
Medical Sciences Building
Room 2374, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Degree Programs Biomedical Communications

Master of Science in Biomedical Communications

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute of Medical Science's additional admission requirements stated below.
- Graduation from a recognized university with an appropriate four-year 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.
- A high-quality portfolio of visual material; consult the MScBMC website for guidance.

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 2 of the graduate program, students enter their chosen field.

Program Length

6 sessions full-time (typical registration sequence: F/W/ S/F/W/S)

Time Limit

3 years full-time

Course List

Consult the Faculty of Medicine each session regarding course offerings.

Required Courses

MSC 1001Y	Human Anatomy (Including Embryology)
MSC 2001Y	Visual Representation of Medical Knowledge
MSC 2002H	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 2012Y	Neuroanatomy for Visual Communication
MSC 2013Y	Master's Research Project and Paper
MSC 2018H*	Visual Representation of Processes in Human Pathology

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

Elective Courses

Students are encouraged to take at least one of their electives in a graduate program other than Biomedical Communications.

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
MSC 2015H	Interpretive Visualization: Cinematic Design and Preproduction
MSC 2016H	Visualization Methods
MSC 2017H	Visualization Technology
MSC 2019H	Information and Data Visualization in Science and Medicine

Medical Radiation Sciences

Master of Health Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the graduate unit's additional admission requirements stated below. The admission requirements for the two-year program and three-year program options are the same.
- Hold certification in your relevant jurisdiction and provide evidence of eligibility for professional registration in Ontario where necessary.
- Have completed a recognized bachelor's degree in medical radiation sciences or in an equivalent field.
- 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.
- Supporting documentation:
 - Three referee letters (as per process outlined on the application web page).
 - A letter of intent (three-year option applicants should indicate why they wish to pursue this option).
 - An updated curriculum vitae (CV).
 - Original university academic transcripts.
 - For applicants planning to complete their program in a department that is not an affiliated teaching hospital of the University of Toronto: documentation providing evidence of departmental support is necessary to attest to the clinical site's ability and willingness to provide the necessary internal support for the clinical practica and master's research project (including time, expertise, and resources). Applicants are to submit the Evidence of Departmental Support for Non-Affiliated Clinical Sites form.
- English-language proficiency. Applicants whose primary language is not English and who graduated from a university where the language of instruction was not English must demonstrate proficiency 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.

Degree and Diploma Programs by Graduate Unit

- Academic Preparation Course, International ESL Program, School of Graduate Studies: minimum final grade of B in Level 60.

Program Requirements

Two-Year Full-Time Program

- Within this two-year, six-session program, students must:
 - Complete a mandatory set of 4.5 full-course equivalents (FCEs) over the first four sessions. Each course has a weighting of 0.5 FCE.
 - Complete 1.0 elective FCE within the first four sessions. In all cases, courses selected are subject to the approval of the Program Director.
 - Complete the two final-year internship courses MSC 1510Y and MSC 1511Y (2.0 FCEs) and the major research project (0.5 FCE) in the final two sessions of the program.

Three-Year Extended Full-Time Option

- This program option, designed for working professionals who wish to complete the degree over an extended period, covers the equivalent of the two-year, six-session program, but over a three-year or nine-session period. In this program option, students must:
 - Complete a mandatory set of 4.5 full-course equivalents (FCEs) over the first six sessions. Each course has a weighting of 0.5 FCE.
 - Complete 1.0 elective FCE within the first six sessions. In all cases, courses selected are subject to the approval of the Program Director.
 - Complete the two final-year internship courses MSC 1510Y and MSC 1511Y (2.0 FCEs) and the major research project (0.5 FCE) over a maximum of the final four sessions of the program option.

Program Length

6 sessions (2-year full-time program) (typical registration sequence: F/W/S/F/W/S);

9 sessions (3-year extended full-time option) (typical registration sequence: F/W/S/F/W/S/F/W/S)

Time Limit

3 years full-time

Course List

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 Part I

MSC 1504H	Clinical Reasoning and Decision Making in Radiotherapy Part II
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

Internship Courses

MSC 1510Y	Clinical Practicum I
MSC 1511Y	Clinical Practicum II

Medical Science

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute of Medical Science's additional admission requirements stated below.
- 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 the 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 proficiency 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

- Coursework and research.
- 1.0 graduate full-course equivalent (FCE) in addition to MSC 1010Y⁰ *MSc Student Seminars*.
- A research thesis and oral thesis examination.
- Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

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

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute of Medical Science's additional admission requirements stated below.
- 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 an MSc degree** (with an 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 an MSc thesis.

Degree and Diploma Programs by Graduate Unit

- **Direct entry** into the PhD program from an appropriate BSc or an MD degree, without completing an MSc degree.

Program Requirements

- Coursework; students may be required to take extra courses in addition to the degree requirements listed below:
 - **Students with an MSc degree** (with an 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 to 21 months of initial graduate registration. The 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 to 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 3 (Year 4 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.

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

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

Course List

Not all courses are offered each year. Check the departmental website for course availability.

Degree and Diploma Programs by Graduate Unit

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
JNR 1444Y	Fundamentals of Neuroscience—Cellular and Molecular
JNS 1000Y	Fundamentals of Neuroscience—Systems and Behaviour
JYG 1555H	Advanced Topics—Cellular and Molecular Neurobiology
JPM 1005Y	Behavioural Pharmacology
MSC 1001Y	Human Anatomy (Including Embryology)
MSC 1006H	Neuroanatomy
MSC 1008Y	Advanced Human Embryology and Teratology
MSC 1010Y ⁰	MSc Student Seminars in Translational Research (Credit/No Credit)
MSC 1011Y ⁰	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 1081H	Studies in Schizophrenia
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 1087H	Neuroimaging Methods Using Magnetic Resonance Imaging

MSC 1088H	Brain Positron Emission Tomography
MSC 1089H	The Biopsychosocial Basis of Mental Health and Addictive Disorders
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 1512H	Improving Cancer Control Through Survivorship Research
MSC 2010Y	Molecular Medicine in Human Genetic Disease
MSC 2020H	Diagnostic and Therapeutic Strategies in Genomic Medicine
MSC 3001H	Foundations in Musculoskeletal Science
MSC 4001H	Foundations in Resuscitation Science Research
MSC 6000H	Special Topics Reading Course
MSC 7000Y	Regenerative Medicine
MSC 8000Y	Transdisciplinary Studies in Infectious Disease (using Hepatitis C as a Model)

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

Combined Degree Program: Doctor of Medicine / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Translational Research in the Health Sciences

Master of Health Science

Minimum Admission Requirements

- Applicants are admitted on the basis of academic preparation, references, and motivation. All applicants must demonstrate exceptional scholarly achievement and significant research experience.
- An appropriate bachelor's (BSc) degree or an MD degree from a recognized university, and academic credentials and background preparation appropriate to the field of study with an A- average in at least three of the four years.
- Applicants with significant research experience and/or academic research master's or PhD in related areas of study are considered.
- Applicants with related research experience in professional health science or related social science are encouraged to apply.
- The application must be accompanied by:
 - a current curriculum vitae (CV)
 - a letter of intent or statement of professional goals
 - three letters of reference.
- Applicants whose primary language is not English, and who graduated from a university where the language of instruction was not English, must demonstrate proficiency in the English language through the successful completion 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.
 - Tests must be completed in the year prior to application to the program.
- Deadline for receipt of applications is February 1. Enrolment is limited and not all applicants meeting the prerequisites are admitted. Applicants are screened for eligibility; short-listed applicants are interviewed.

Program Requirements

- Within this two-year, five-session program, students must complete a total of 8.0 full-course equivalents (FCEs) as follows:
 - Year 1:
 - MSC 1000H *Foundations in Translational Research* (0.5 FCE, Fall)
 - MSC 4010Y *Core Modules in Translational Research* (2.0 FCEs, Fall, Winter, and Summer). MSC 4010Y includes selection and

Degree and Diploma Programs by Graduate Unit

completion of eight shorter module courses from three research domains.

- KMD 1001H *Theory and Methods in Knowledge Media Design* (0.5 FCE, Fall)
- KMD 1002H *Applications in Knowledge Media Design* (0.5 FCE, Winter)
- MSC 1003H *Technology-Mediated Scientific Communication* (0.5 FCE, Winter)
- MSC 2021Y *Projects in Translational Research* (1.0 FCE, Summer)
- Year 2:
 - MSC 4000Y *Capstone Project in Translational Research* (2.0 FCEs, Fall and Winter)
 - MSC 4010Y⁰ *Core Modules in Translational Research* (Fall and Winter)
 - Plus two half-course electives from the approved list or with pre-approval from the Graduate Coordinator (1.0 FCE).

Program Length

5 sessions full-time (F/W/S/F/W)

Time Limit

3 years

Course List

Required

KMD 1001H	Theories and Methods in Knowledge Media Design
KMD 1002H	Applications in Knowledge Media
MSC 1000H	Foundations in Translational Research
MSC 1003H	Technology-Mediated Scientific Communication
MSC 2021Y	Projects in Translational Research
MSC 4000Y	Capstone Project in Translational Research
MSC 4010Y ⁰	Core Modules in Translational Research

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

Approved Electives

Not all courses are offered each year. Check the departmental website for course availability.

HAD 5735H	Commercialization of Health Research
HAD 5765H	Case Studies in Health Policy
JCV 3060H	Advanced Topics in Cardiovascular Sciences—Molecular Biology and Heart Signal Transduction

Degree and Diploma Programs by Graduate Unit

JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JNP 1014Y	Interdisciplinary Pharmacology
JNP 1017H	Current Topics in Molecular and Biochemical Toxicology
LMP 1013H	Neoplasia
LMP 1018H	Molecular Biology and Applications to Human Disease
LMP 1404H	Molecular and Cellular Mechanism of Disease
LMP 1407H	Introductory Biostatistics and Clinical Investigation
LMP 1525H	The Role of Genomics in the Era of Personalized Medicine
MSC 1040H	Physiologic Basis of Disease
MSC 1051H	Research Bioethics
MSC 1085H	Molecular Approaches to Mental Health and Addictions
MSC 1089H	The Biopsychosocial Basis of Mental Health Addictive Disorders
MSC 1090H	Introduction to Clinical Biostatistics
MSC 2010Y	Advanced Concepts in Human Genetic Disease
MSC 4001H	Foundations in Resuscitation Science Research
MSC 7000Y	Regenerative Medicine (Webcast)
MSC 8000Y	Transdisciplinary Studies in Infectious Disease (Hepatitis C)
PSL 1022H	Reproductive and Developmental Medicine
PSL 1048H	Translational Physiology: From Molecules to Model Systems to the Clinic
PSL 1068H	Advanced Topics: Molecular Basis of Behaviour
PSL 1071H	Advanced Topics: Computational Neuroscience

Alman, Benjamin - BSc, MD
 Anagnostou, Evdokia - MD
 Arnold, Paul - BSc, MD
 Backx, Peter - DrMedVet, PhD, PhD
 Badley, Elizabeth - BSc, MSc, PhD
 Bagli, Darius - BS, MD
 Baker, Andrew - MD, MD
 Banwell, Brenda - MD
 Bapat, Bharati - BSc, MSc, PhD
 Barr, Cathy - BSc, PhD
 Barrera, Maria - MA, PhD
 Baruchel, Sylvain - BS, MD, MD
 Bassett, Anne - BSc, MD
 Batt, Jane - MD, PhD
 Baxter, Nancy - DrMed, PhD
 Belik, Jaques - MD
 Bell, Chaim - MD
 Black, Sandra - BSc, MD
 Bogoch, Earl - BA, MSc, MD
 Borschel, Gregory - BSc, DrMed
 Boulianne, Gabrielle - BSc, PhD
 Boydell, Katherine Mary - BA, MHSc, PhD
 Branch, Donald - BA, BSc, PhD
 Bremner, Roderick Angus - BSc, PhD
 Brill, Julie - PhD
 Bristow, Robert Glen - MD, PhD
 Brochard, Laurent - MD
 Brock, Kristy - PhD
 Brooks, Dina - BSc(PT), MSc, PhD
 Brown, Adalsteinn - AB, PhD
 Brown, Theodore - BSc, PhD
 Brumell, John - BSc, PhD
 Caldarone, Christopher - BSc, MD
 Caniggia, Isabella - MD, PhD
 Carlen, Peter - MD
 Carnahan, Heather - BPHE, MSc, PhD
 Casper, Robert - MD
 Cassidy, David - BSc, MSc, PhD
 Catral, Mark - MSc, BScMed, MD
 Catran, Daniel - MD
 Chan, Helen - MBBS
 Chapman, Kenneth - MSc, MD
 Chen, Robert - MB
 Cheung, Angela - BA, MD, PhD
 Cheyne, Douglas - BSc, MA, PhD
 Chow, Chung-Wai - MD, PhD
 Clarke, David - PhD
 Cochrane, Alan - BSc, PhD
 Coles, John - MD
 Cordes, Sabine - BS, PhD
 Corey, Paul - BSc, MA, PhD
 Croitoru, Ken - MDCM
 Cusimano, Michael - MHPE, MD, PhD
 Daar, Abdallah Salim - MD
 Daneman, Denis - BSc, MBCHB, MBCHB
 Daskalakis, Zafiris Jeffrey - MD
 Davis, Aileen - BSc(PT), MSc, PhD
 Davis, Karen - BSc, MSc, PhD
 Dawson, Laura - MD

Graduate Faculty

Full Members

Advani, Andrew - MBCHB, PhD
 Agur, Anne - BSc, MSc, PhD
 Alain, Claude - BA, MA, PhD
 Alibhai, Shabbir - MD
 Allard, Johane - MD

Degree and Diploma Programs by Graduate Unit

de Veber, Gabriel - MD
 Devins, Gerald - PhD
 Donnelly, Sandra - BSc, MSc, MDCM
 Dorian, Paul - MSc, MDCH
 Dos Santos, Claudia - MSc, MD
 Drake, James - BSE, MSc, MBCHB
 Drucker, Daniel - MD
 Dubrowski, Adam - BSc, MSc, PhD
 Einstein, Gillian - AB, PhD
 Eubanks, James - BSc, AA, PhD
 Ezzat, Shereen - MD
 Fantus, George - BSc, MDCM
 Fehlings, Michael - LMCC, MD, PhD
 Feinstein, Anthony - MBCHB, PhD
 Feld, Jordan - MPH, MD
 Feldman, Brian - MD
 Fernie, Geoffrey - BSc, PhD
 Fish, Joel - BSc, MSc, MD
 Fisher, Joseph - MD
 Flanagan, John - BSc, PhD
 Fleming, Alison - BS, PhD
 Fleshner, Neil - MPH, LRCP, MD
 Flint, Alastair - ChB
 Floras, John - MD, DPhil
 Forrest, Christopher - BSc, MSc, MD
 Frankland, Paul - MA, PhD
 Freedman, Morris - BSc, MD
 Fremes, Stephen - BA, MSc, MD
 Gaisano, Herbert - BS, MD
 Gallinger, Steven - MSc, MD
 Ganguli, Rohan - MBBS
 George, Tony - BSc, MD
 Gilbert, Richard - MBBS, PhD
 Gladman, Dafna - MD
 Glazier, Richard - MPH, MD
 Goh, M Cynthia - PhD
 Goldstein, Roger - MBCHB
 Goodman, Jack - BPHE, MSc, PhD
 Gorczynski, Reginald - BSc, BA, MA, MD, PhD
 Gordon, Karen - DPhil
 Grady, Cheryl - BA, MA, PhD
 Graff-Guerrero, Ariel - MD
 Granton, John - BS, MD
 Grunfeld, Eva - MD, PhD
 Gupta, Neeru - BM
 Hamilton, Jill - BSc, MSc, MD
 Harrison, Robert - PhD, DSc
 Heon, Elise - LMCC, MD
 Herrmann, Nathan - MD
 Heslegrave, Ronald - PhD
 Hinek, Aleksander - MD, PhD
 Hodaie, Mojgan - BSc, MSc, MD
 Hodges, Brian - BA, MEd, MD
 Holness, D Linn - MHSc, MD
 Horner, Richard - BSc, PhD
 Hudson, Christopher - BSc, PhD
 Humar, Atul - MSc, MD
 Husain, Mansoor - MB, MD
 Hutchison, William - BSc, MSc, PhD

Hwang, Paul Als - BSc, MSc, MD
 Irwin, Meredith - MD
 Jadad, Alejandro - MD, DPhil
 Jarvi, Keith - MD
 Jewett, Michael - LMCC, MD
 Jin, Tianru - PhD
 Jones, Nicola - MD
 Josselyn, Sheena - MA, PhD
 Kain, Kevin - MD
 Kaplan, Allan - AA, BA, MSc, MD
 Kaplan, David - BA, PhD
 Kapus, Andras - MD, PhD
 Katz, Joel - PhD
 Katzman, Debra - MD
 Kaul, Rupert - MD, PhD
 Kavanagh, Brian - BSc, BSc, MBCHB, MBCHB
 Keating, Armand - BSc, MD
 Kelvin, David - MASc, PhD
 Kennedy, James - MD
 Keshavjee, Shafique - BA, MSc, LMCC, MD
 Klip, Amira - ScD
 Klotz, Laurence - LMCC, MD
 Koren, Gideon - MD
 Kucharczyk, Walter - MD
 Kuebler, Wolfgang - DrMed, PhD
 Kumar, Deepali - MSc, MD
 Laffey, John - BSc, MA, DrMed, MB
 Lazarus, Alan - PhD
 Le Foll, Bernard - MSc, DrMed, PhD
 LeBlanc, Vicki - PhD
 Lee, Douglas - DrMed, PhD
 Lee, Warren - MD, PhD
 Lemmens, Trudo - LLM, DCL
 Leong-Poi, Howard - MD
 Levine, Brian - BA, MA, PhD
 Levinson, Wendy - BSc, MD
 Levitan, Robert - MSc, MDCM
 Levy, Gary - BSc, MD
 Lewis, Gary - BCh, MBCHB
 Li, Ren-Ke - MHSc, MSc, MD, PhD
 Links, Paul - MD
 Liu, Fang - PhD
 Liu, Fei-Fei - MD
 Liu, Mingyao - MSc, MD (*Director, Institute of Medical Science*)
 Lobaugh, Nancy - BS, PhD
 Logan, Alexander - MD
 Lovett, Maureen - BSc, MSc, PhD
 Lozano, Andres - BSc, LMCC, MD, BScMed, PhD
 MacDonald, Kelly - MD
 Macdonald, Robert - MD, PhD
 MacDonald, Russell - MD
 Mailis-Gagnon, Angela - MSc, MD
 Maki, Brian - BASc, MASc, PhD, PEng
 Malkin, David - MD
 Marsden, Philip - MD
 Marshall, John - MD
 McCart, Judith Andrea - MSc, MD
 McCrindle, Brian - MD

Degree and Diploma Programs by Graduate Unit

McDonald, Lynn - PhD
 McKee, Nancy - MD
 McNamara, Patrick - MB
 Meyer, Jeffrey - MD
 Meyn, Michael - MD
 Mikulis, David - BS, MD
 Miller, Freda - BSc, PhD
 Miller, Steven - MD
 Minassian, Berge - MDCM
 Minden, Mark - MD, PhD
 Mizrahi, Romina - MD, PhD
 Moe, Gordon - MD
 Moody, Alan - BA, MA, MBBS
 Morrison, Laurie - BSc
 Morshead, Cindi Marie - BS, PhD
 Moulton, Carol-Anne - MSc, DrMed
 Mount, Howard - BSc, PhD (**Coordinator of Graduate Studies**)
 Mulsant, Benoit - MD
 Naglie, I. Gary - BSc, MDCM
 Nanthakumar, Kumaraswamy - MD
 Narod, Steven - BSc, MD
 Nathens, Avery - MPH, MD, PhD
 Neel, Benjamin - MD, PhD
 Noh, Samuel - BA, MA, PhD
 O'Campo, Patricia - BSc, PhD
 Olivieri, Nancy - MD
 Orser, Beverley - MD
 Osborne, Lucy - PhD
 Ostrowski, Mario - MD
 Palaniyar, Nades - MSc, PhD
 Palmert, Mark - MD
 Pang, Elizabeth - PhD
 Parker, Thomas - MD
 Parshuram, Christopher - MBCHB
 Paus, Tomas - MD, PhD
 Pei, York Po-Chee - MD
 Petronis, Arturas - MD
 Pollock, Bruce - BSc, MD, PhD
 Post, Martin - PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Quaggin, Susan Elizabeth - MD
 Rand, Margaret - BSc, PhD
 Rao, Vivek - LMCC, MD, PhD
 Ratjen, Felix - MD
 Ravindran, Arun - PhD
 Redelmeier, Donald - MS, MD
 Regehr, Cheryl - AB, MA, PhD
 Rehm, Jurgen - PhD
 Reithmeier, Reinhart - BSc, PhD
 Remington, Gary - MD, PhD
 Richards, Robin - BA, MD
 Rizoli, Sandro - LRCP, MD, PhD
 Rochon, Paula - MD
 Roder, John - PhD
 Rodin, Gary - BSc, MD
 Rosenblum, Norman - MD
 Ross, Bernard - Diplng, PhD
 Ross, Heather - BSc, MD

Rotstein, Ori - MSc, MD
 Rourke, Sean - BSc, BA, PhD
 Rovet, Joanne - BSc, PhD
 Rubinfeld, Gordon - MSc, MD
 Rubin, Laurence - MD
 Rutka, James - BSc, LMCC, MD, PhD
 Sadavoy, Joel - MD
 Salter, Michael - MD, PhD
 Schachar, Russell James - MD
 Schemitsch, Emil - MD
 Scherer, Stephen - PhD
 Schimmer, Aaron - MD, PhD
 Scholey, James - MD
 Schweizer, Tom - BA, MSc, DPhil
 Selby, Peter - MHSc, MBBS
 Semple, John - BSc, MSc, MD
 Semple, John Wesley - PhD
 Shapiro, Colin - BSc, PhD
 Sherman, Philip - MD
 Shoichet, Molly - PhD
 Silver, Ivan - BSc, MD
 Silverberg, Mark - MD
 Silverman, Melvin - BSc, MDCH
 Siminovitch, Katherine - MD
 Singer, Lianne - MD
 Singer, Peter - MPH, MD
 Slutsky, Arthur - BASc, MASc, MD
 Snead III, Carter - BS, MD, MD
 Steinbach, Martin - BSc, MA, PhD
 Stevens, Bonnie - BSc, MSN, DPhil
 Stewart, Donna - DPsych, MD
 Strafella, Antonio - MD, PhD
 Strauss, John - MD
 Sun, Hong-Shuo - MSc, DrMed, DPhil
 Swallow, Carol - BA, MD, PhD
 Szaszi, Katalin - MD, PhD
 Tabori, Uri - MBBS
 Tandon, Anurag - BSc, PhD
 Tannock, Ian - MD, PhD
 Tanswell, Alan - BS, MBBS, MBBS
 Tarlo, Susan - MBBS
 Tator, Charles - MA, MD, PhD
 Taylor, Margot - BA, MA, PhD
 Thorsteinsdottir, Halla - PhD
 Tierney, Mary - BA, MA, PhD
 To, Teresa - BSc, MSc, PhD
 Toner, Brenda - BA, MA, PhD (**Coordinator of Graduate Studies**)
 Trope, Graham - DOMS, LMCC, MD
 Tu, Jack Ven - MD, PhD
 Upshur, Ross Edward - BA, MA, MSc, MD
 Urbach, David - MSc, MD
 Urowitz, Murray - MD
 Van Der Kooy, Derek - BSc, MA, PhD
 Venkateswaran, Vasundara - BSc, MPH, MSc, PhD
 (**Coordinator of Graduate Studies**)
 Verma, Subodh - MSc, MD, PhD
 Vincent, John - PhD
 Warsh, Jerry - MD

Degree and Diploma Programs by Graduate Unit

Wedge, John - BSc, MD
 Weisel, Richard - BA, MD
 Weksberg, Rosanna - MD, PhD
 Wheeler, Michael - BSc, PhD
 Whiteside, Catharine Isobel - BSc, MD, PhD
 Whyne, Cari - BSc, PhD
 Wiley, Mike - BSc, MSc, PhD
 Wilson, Alan - BA, PhD
 Wilson, Gregory - MSc, MD
 Wittnich, Carin - MSc, DVM
 Wong, Ming F Agnes - DOMS, MD, PhD
 Woo, Minna Nancy - MD
 Woodside, Blake - BSc, MSc, MD
 Wright, Graham - BSc, MSc, PhD
 Wright, James - BA, LMCC, MPH, MD
 Wu, Robert - MSc, MD
 Wunder, Jay - BA, MSc, LMCC, MD
 Yang, Burton - BSc, MSc, PhD
 Yau, Terrence - BA, MSc, MDCM, MDCM
 Yee, Albert - MSc, LMCC, MD
 Yeger, Herman - BSc, MScPhm, PhD
 Yeung, Rae - DrMed, MD
 Yucel, Yeni - MD
 Zhang, Haibo - MSc, PhD
 Zhang, Li - MSc, MD, PhD
 Zhang, Liang - PhD
 Zhen, Mei - PhD
 Zinman, Bernard - BSc, MD

Members Emeriti

Boyd, Norman - MD
 McKneally, Martin - MD, PhD
 Seeman, Mary - BA, MDCH, MD
 Silverman, Frances - PhD
 Tannock, Rosemary - BSc, MA, PhD
 Verrier, Mary (Molly) - DipOT, MHSc

Associate Members

Abuelaish, Izzeldin - MPH, MBBS, MD
 Agid, Ofer - MD
 Ahmed, Najma - BSc, MD, PhD
 Al-Hesayen, Abdul - MD
 Al-Omran, Mohammed - MSc, MBBS
 Ammendolia, Carlo - MedScD
 Atri, Mostafa - MD
 Aviv, Richard - MBCHB
 Bandiera, Glen - MD
 Barker, Ruth - BSc
 Barr, Mera - AB, AM, PhD
 Bayley, Mark - MD
 Beattie, William Scott - MD
 Bernardini, Marcus - BSc, MSc, MD
 Billia, Filio - BSc, MSc, MD, PhD
 Boileau, Isabelle - PhD
 Bowman, Kerry - BA, BSW, MSW, PhD
 Brent, Michael - MB
 Brull, Richard - BS, MD
 Buys, Yvonne Margareth - LMCC, MD

Callum, Jeannie - BA, MD
 Carcao, Manuel - MD
 Chandran, Vinod - MBBS, PhD
 Chauhan, Vijay - MD
 Cheema, Asim - MBBS
 Cherney, David - MD, PhD
 Cheung, Amy - BA, MSc, MD
 Chow, Tiffany - MSc, MD
 Cil, Tulin - BSc, MEd, DrMed
 Clarke, Hance - MSc, MD
 Classen, Catherine - BA, MA, PhD
 Corrin, Michael - BFA, BA, BSc, MSc
 Court, John - MA
 Crawley, Adrian - BA, PhD
 Cypel, Marcelo - DrMed
 da Costa Jr, Leodante - DrMed
 Das, Sunit - DrMed
 De Luca, Vincenzo - MD, PhD
 Delgado, Diego - MD
 Di Prospero, Lisa - MSc
 Doesburg, Sam - BSc, PhD
 Doria, Andrea - MSc, MD, PhD
 Downar, Jonathan - MD
 Emmenegger, Urban - MD
 Fan, Eddy - BSc, MD, PhD
 Farzan, Faranak - BEng, PhD
 Ferenbok, Joseph - PhD, PhD
 Finelli, Antonio - BSc, MSc, MSc, PhD
 Fisman, David - MPH, MD
 Forbes, Thomas - MD
 Foussias, George - BSc, MSc, DrMed, PhD
 Friedberg, Mark - MD
 Friesen, Lendra - MedScD
 Furlan, Andrea - MD, PhD
 Fyles, Anthony - MD
 Gagliese, Lucia - BSc, PhD
 Gerstle, Justin - CPSO, MD
 Giacca, Adria - MD
 Gibson, Jennifer - PhD
 Ginsburg, Shiphra - MEd, MD
 Gladly, Rebecca - DrMed, PhD
 Gladstone, David - MD
 Goldstein, Benjamin - MD
 Goldstein, David - BA, MD
 Goltz, Herbert - BA, MA, PhD
 Gonska, Tanja - MD
 Grasemann, Hartmut - MD
 Green, Shane K. - BSc, PhD
 Grigoriadis, Sophie - MD, PhD
 Guerguerian, Anne Marie - MD
 Hahn, Cecil - MD
 Haider, Masoom - BM, MD
 Hamani, Clement - DrMed, PhD
 Hare, Gregory - MD, PhD
 Harnett, Nicole - BSc
 Haroon, Nigil - MBBS, MD, PhD
 Hellmann, Jonathan - DipCH, MBCHB, MBCHB
 Hitzler, Johann - MD
 Hofer, Stefan - MD, PhD

Degree and Diploma Programs by Graduate Unit

Holden, Lori - BSc
 Howard, Andrew - BA, CPSO, MSc, LMCC, MD
 Ickowicz, Abel - MD
 Jassal, Sarbjit Vanita - MD
 Jenkinson, Jodie - BA, MSc, PhD
 Jin, Yaping - PhD
 Joshua, Anthony - MBBS
 Kahr, Walter - MD
 Kamath, Binita - MBBS
 Kannu, Peter - MD
 Karkouti, Keyvan - MD
 Kertes, Peter - MD
 Kidd, Sean - PhD
 Kingdom, John - DipCH, MB, MD
 Kitto, Simon - BA, BEd, DPhil
 Koeberle, Paulo - BS, PhD
 Koritzinsky, Marianne -
 Krzyzanowska, Monika - MPH, MD
 Kulasegaram, Kulamakan - BSc, PhD
 Kulkarni, Abhaya - BSc, MD, PhD
 Lang, Anthony - MD
 Latter, David - BA, LMCC, MDCM
 Lazar, Neil - BSc, MD
 Levinson, Andrea - DP
 Librach, Clifford - MD
 Licht, Christoph - MD
 Lim, Andrew - BSc, MD
 Lin, Vincent - MD
 Lo, Kirk - BSc, MD
 Lobo, Daniela - MD
 Lunskey, Yona - PhD
 MacRae, Helen - BSc, MA, MD
 Mak, Susanna - MD, PhD
 Mamdani, Muhammad - DP
 Manassis-Krumma, Katharina - MD
 Masellis, Mario - MSc, MD
 Mathur, Sunita - BSc(PT), MSc(PT), PhD
 Mazer, Cyril David - MD
 Mazierski, David - BSc, MSc
 McIntyre, Roger - MD
 Menon, Mahesh - PhD
 Milosevic, Michael - MD
 Milot, Laurent - MSc, MD
 Mital, Seema - MBBS
 Monks, Ashley - BSc, MA, PhD
 Mueller, Daniel - MD
 Muise, Aleixo - MD
 Nathan, Paul - BA, MSc, MD
 Nolan, Robert - PhD
 Nulman, Irena - MD
 Nyhof-Young, Joyce - PhD
 O'Connor, Paul - MD
 O'Sullivan, Brian - MBCHB
 Ouellet, Doreen - BA, AB, MHSc
 Perez Velazquez, Jose Luis - PhD
 Petrella, Teresa - BSc, MD
 Popova, Svetlana - MPH, MSD, DSW, MedScD
 Rajji, Tarek - MD
 Ralhan, Ranju - ScD

Ray, Joel - MSc, MD
 Rector, Neil - MA, MA
 Reel, Kevin - BSc(OT)
 Reich, Heather - MDCM, PhD
 Retnakaran, Ravi - MSc, MD
 Richter, Peggy - MD
 Rosewall, Tara - MS
 Ross, Lori - BSc, PhD
 Samokhvalov, Andriy - MSc, MD
 Schuh, Suzanne - MD
 Scott, Jeremy - PhD, DPhil
 Seed, Mike - MBBS
 Selzner, Markus - MD, PhD
 Shafiee Nyestanak, Mohammad - MD
 Silversides, Candice - MSc, MD
 Stergiopoulos, Vicky - MD
 Swartz, Richard - BSc, MD, PhD
 Szego, Michael - BSc, MHSc, PhD
 Tam, Emily - MD
 Tartaglia, Carmela - BA, BSc, MDCM
 Tobe, Sheldon - BSc, MD
 Trudeau, Maureen - BSc, MA, MD
 Valiante, Taufik - BSc, MD, PhD
 Van Reekum, Robert - BSc, MD
 Voineskos, Aristotle - MD, PhD
 Wadey, Veronica - BSc, BEd, MSc, MD
 Wald, Rachel - MD
 Wales, Paul - BSc, MSc, MD
 Wasserman, Jonathan - MD
 Wen, Xiao-Yan - PhD
 Widjaja, Elysa - MSc, MPH, MBBS
 Wilson-Pauwels, Linda - ATD, BSc, MEd, EdD
 Wintersperger, Bernd - MD
 Witterick, Ian - DrMed
 Woolridge, Nicholas - BFA, BSc, BFA, MSc
 Yousef, George - MSc, MD, PhD
 Yuen, Darren - BSc, MD, PhD
 Yunusova, Yana - MS, MA, PhD
 Zimmermann, Camilla - MSc, MD

Medieval Studies

Faculty Affiliation

Arts and Science

Degree Programs

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 interdepartmental 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Centre for Medieval Studies' additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with an average grade of at least a B+ 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 and
 - 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 **coursework 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,

Degree and Diploma Programs by Graduate Unit

and the topic must be submitted to the centre by November 30 of the MA year.

- In the MA program, course training in Latin is given at three levels. All students are expected to arrive with knowledge equivalent to at least 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.

Program Length

3 sessions full-time one-year MA (typical registration sequence: F/W/S);

6 sessions full-time two-year MA (typical registration sequence: F/W/S/F/W/S);

6 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. Applicants must also satisfy the Centre for Medieval Studies' additional admission requirements stated below.
- Ability to do independent research of high quality. Applicants may be admitted via one of two routes:
 1. Direct entry—an appropriate bachelor's degree from a recognized university with an average grade of at least A- in the applicant's overall program. Coursework in the medieval period must have formed part of the program.
 2. Entry with a master's degree—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.
- In the PhD 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.
- By December of Year 2, students should have a full Advisory Committee, consisting of a supervisor and two other members. During the Spring session of the same academic year, students should develop the Major Field Proposal in consultation with the Advisory Committee. The proposal should be submitted by the end of the spring term, and no later than the beginning of the Fall session of Year 3. The proposal must be prepared according to the guidelines of the Centre for Medieval Studies. It must be signed by all members of the Advisory Committee and submitted to the centre for approval by the centre's Executive Committee at least two months prior to the Major Field Examination.
- Students must pass the Level Two Latin examination and the centre's examinations in the French and German languages before moving on to the Major Field Examination. No other language may be substituted for any of these. Failure to pass all the language exams by the end of Year 3 leads to an automatic failure of the Major Field Examination and thus to termination from the program.
- The purpose of the Major Field Examination is to demonstrate both the student's scholarly expertise in the particular area of doctoral dissertation and a broader academic competence. The Major Field Examination has two components: a statement paper and an oral examination. The statement paper is normally five to seven pages (approximately 1,500 words) and has to be submitted to the

members of the Advisory Committee two weeks before the oral examination takes place. The examination is a two-hour-long oral exam. The Major Field Examination is graded on a pass/fail basis. The Advisory Committee, in consultation with the Executive Committee of the centre, has the discretion to determine if a student may retake the Major Field Examination. Only one retake is permitted and must take place within two months of the first exam; no more than two attempts at the Major Field Examination are allowed. Students who do not pass the Major Field Examination before the beginning of Year 4 will be recommended to SGS for termination of registration.

- After a successful Major Field Examination, i.e., usually during the Spring session of Year 3, students should develop and submit a PhD dissertation proposal. This 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 proposal should be prepared according to the guidelines of the Centre for Medieval Studies. The proposal must be signed by all members of the student's Advisory Committee and submitted to the Centre for approval by the Executive Committee. 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.

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?

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 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
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English

ENG 1001H	Old English I
ENG 1002H	Old English II

Degree and Diploma Programs by Graduate Unit

ENG 1009H	Writing the Nation: Pre-Modern Historiographies
ENG 1551H	The Canterbury Tales
ENG 2485H	London Drama 1190–1590

French Language and Literature

FRE 1164H	Medieval French Language and Literature
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Germanic Languages and Literatures

GER 1200H	Middle High German
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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 1213H	Medieval Institutes of Perfection (joint graduate/undergraduate)
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
ITA 1597H	The Commedia dell'Arte

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	Medieval Latin I
MST 1001Y	Medieval Latin II
MST 1002H	Topics in Medieval Latin Literature (PR)
MST 1016H	Hagiography of the Norman Transition (PR)
MST 1017H	Medieval Exegesis (PR)
MST 1020H	The Medieval Latin Epic (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 1116H	New Philology
MST 1121H	Literacy in Late Antiquity (c. 284–632)

MST 1371H	Old English Philology: Grammar (PR)
MST 1379H	The Blickling Homilies (PR)
MST 1381H	Homilies of the Vercelli Book (PR)
MST 1384H	The Exeter Book of Old English Verse (PR)
MST 1422H	Introduction to the Study of Magic in the Middle Ages
MST 1425H	Medieval Magic: Predicting the Future and Influencing Events (PR)
MST 2001H	Old Saxon
MST 2005H	Medieval German Heroic Epic (PR)
MST 2006H	Wolfram von Eschenbach: Parzival (PR)
MST 2010Y	Old Norse
MST 2015H, Y	Studies in Old Norse Texts (PR)
MST 2017H	The Sources of Norse Myths (PR)
MST 2030Y	Old and Middle Irish
MST 2031H	Early Irish Saga (PR)
MST 2032H	Medieval Irish Poetry 500–1600 (PR)
MST 2033H	Textual Studies in Medieval Irish Poetry (PR)
MST 2034H	Introduction to Early Irish Law (PR)
MST 2037H	Legendary History of Britain and Ireland from Celtic Sources
MST 2038H	Medieval Brittany (PR)
MST 2039H	Saints, Monasteries, and Heretics in Medieval Brittany
MST 2040H	Beginnings of Medieval Rhetoric and Poetics (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 3103H	Gender and Desire in the Spirituality of Aelred of Rievaulx (PR)
MST 3112H	Geography and Identity in Old and Middle English Literature
MST 3113H	Figures of Heroism in Old English Literature (PR)
MST 3115H	Hospitality and Hostility in Old English Literature (PR)

Degree and Diploma Programs by Graduate Unit

MST 3116H	Topics in Medieval Medicine
MST 3123H	Introduction to Medieval Medicine
MST 3125H	The Medieval Short Story
MST 3140Y	Medieval Catalan Language and Literature
MST 3150H	Medieval French Epic (PR)
MST 3151H	Introduction to Old French
MST 3152H	Introduction to Old Occitan (PR)
MST 3153H	Old Occitan Troubadour Poetry (PR)
MST 3156H	Charlemagne: Facts and Legends
MST 3157H	Old French and Old Occitan Crusade Epics (PR)
MST 3158H	The Roman de la Rose and Medieval Allegory (PR)
MST 3159H	Classical Antiquity in the French Middle Ages (PR)
MST 3162H	Boccaccio and Chaucer
MST 3163H	Medieval French Historiography: The Normans
MST 3164H	Medieval French Romance
MST 3165H	Vernacular Religious Literature in Medieval France
MST 3201H	Medieval Social History
MST 3203H	Topics in Medieval Economic History
MST 3204H	Marxism and Premodern History
MST 3205H	Violence in Medieval Society
MST 3207H	Decretists and Decretalists: Canonical Jurisprudence 1140–1300
MST 3210H	Medieval Spain (PR)
MST 3211H	High Mediaeval Papacy
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 3235H	Communal Florence, 1150–1530
MST 3236H	The Papal Monarchy
MST 3237H	Through the Lens of Monastic Rules and Customaries
MST 3242H	The Carolingians and the Birth of Europe
MST 3243H	Dark Age Italy
MST 3244H	Patron Saints of Early Medieval Italy

Degree and Diploma Programs by Graduate Unit

MST 3245H	Pharmacy from Antiquity to the Early Middle Ages
MST 3246H	Pharmacy from Early Islam to Medieval and Renaissance Europe
MST 3251H	The Merovingians
MST 3255H	Bishops in the High Middle Ages
MST 3262H	Monastic Identities
MST 3301H	Themes in Medieval Philosophy
MST 3306H	Topics in Augustine
MST 3307H	Augustine in Transition (PR)
MST 3308H	The Philosophy of Peter Abelard
MST 3310H	Thomas Aquinas
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 3340H	Imagination in Medieval Philosophy
MST 3346H	Medieval Islamic Philosophy
MST 3501H	Introduction to the Medieval Christian Liturgy
MST 3601H	Medieval Spanish Sources in Context
MST 9310Y, H	Directed Reading
MST 9315Y, H	Directed Reading

Music

MUS 1040H	Topics in Medieval Music
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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 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

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

Akbari, Suzanne - BA, MA, MPH, PhD (**Director**)
 Andree, U.O. Alexander - BA, PhD
 Armstrong, Lawrin - BA, MA, MA, MDiv, PhD
 Bartlett, Kenneth - BA, MA, PhD
 Black, Deborah - BA, MA, PhD
 Bowen, William - BA, BMus, MA, PhD
 Carley, James - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Caskey, Jill - AB, MA, MPH, PhD
Cochelin, Isabelle - DipdESup, BA, MA, PhD
(Coordinator of Graduate Studies)
Cohen, Adam - PhD
Dewar, Michael - BA, MA, DPhil
Dimnik, Martin - BA, MA, MDiv, DPhil
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
Harris, Jennifer - BA, MA, PhD
Herren, Michael - PhD
Inwood, Brad - BA, MA, PhD, FRSC
Kaczynski, Bernice - BA, MPH, PhD
Keith, Alison - BA, MA, PhD, FRSC
King, Peter - BA, PhD
Kivimae, Juri - AM, PhD
Kullmann, Dorothea - PhD
Liuzza, Roy - BA, MA, MPH, PhD
Magee, John - BA, MA, PhD
Meyerson, Mark - BA, PhD
Mills, Kenneth - MA, PhD
Murray, Jacqueline - PhD
Northrup, Linda - BA, MA, PhD
Orchard, Andrew - DPhil, PhD
Percy, Carol - BA, MA, DPhil
Pickavé, Martin - MA, PhD **(Associate Director)**
Pierno, Franco - BA, MA, PhD
Pietropaolo, Domenico - BSc, MA, PhD
Robins, William - BA, MPH, PhD
Ross, Jill - BA, MA, PhD
Rozemond, Marleen - BA, PhD
Saleh, Walid - BA, MA, PhD
Schallert, Joseph - PhD
Silano, Giulio - BA, LLB, BEd, MA, PhD
Smith, Thomas Allan - MA, DTh
Stock, Markus - MA, PhD
Subtelny, Maria - BA, PhD
Sweetman, Robert - BA, MA, PhD
Terpstra, Nicholas - BA, MA, PhD
Townsend, David Robert - BA, MA, PhD
Welsh, Jarrett - BA, MA, PhD

Members Emeriti

Burke, James - BA, MA, PhD
Davis, Natalie - BA, MA, PhD
Dooley, Ann - BA, MA, PhD
Dresher, B Elan - BA, PhD
Dutka, JoAnna - BA, MA, PhD, ARCT
Farge, James - BA, MA, PhD
Frank, Roberta - BA, MA, PhD
Goffart, Walter - AB, AM, PhD
Harvey, Elisabeth Ruth - BA, MPH, PhD
Healey, Antonette - BA, MA, PhD

Hillgarth, Jocelyn - BA, MA, PhD
Jeauneau, Edouard - BTh, PhD
Johnston, Alexandra - PhD
Klausner, David - AB, PhD
Mayer, Hartwig - PhD, PhD
McConica, James - STB, BA, MA, DPhil, FRHistS
McDonough, Christopher - BA, MA, PhD
Murray, Alexander - BA, PhD
Rigg, Arthur George - BA, MA, DPhil
Sinkewicz, Robert - BA, PhD
Stock, Brian - AB, PhD
Taylor, Robert - PhD

Associate Members

Dinkova-Bruun, Greti - MA, PhD
Gaston, Kara Susan - BA, MPH, PhD
Getz, Robert - BA, MA, PhD
Hutchison, Ann - BA, MA, PhD
Iglesias, Yolanda - BA, BA, MA, PhD
Jurdjevic, Mark - BA, MA, PhD
Koopmans, Rachel - BA, MA, PhD
Michelet Pickavé, Fabienne L. - MPH, LèsL, LittD
Miles, Brent - PhD
Miller, Jeanne - BA, MA, PhD
Mulchahey, M. Michele - BA, MA, PhD
Pelle, Stephen - BA, MA, PhD
Roest, Bert - BA, MA, MA, PhD
Sergi, Matthew - BFA, PhD
Stoclet, Alain - PhD

Molecular Genetics

Faculty Affiliation

Medicine

Degree Programs

Genetic Counselling

MSc

Molecular Genetics

MSc

PhD

Combined Degree Programs

MD / PhD

Collaborative Programs

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

1. **Developmental Biology**
 - Molecular Genetics, MSc, PhD
2. **Genome Biology and Bioinformatics**
 - Molecular Genetics, PhD

Overview

The Department of Molecular Genetics is administered from the Medical Sciences Building and has nearly 100 faculty members whose labs are located within the Medical Science Building, the Best Institute, the Donnelly Centre for Cellular and Biomolecular Research, the FitzGerald Building, the Hospital for Sick Children, Mount Sinai Hospital, the Ontario Institute for Cancer Research, and Princess Margaret 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 Counseling.

The **Master of Science** and **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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Molecular Genetics' additional admission requirements stated below.
- 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 practicum) 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 workup 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Required Courses

MSC 2010Y	Advanced Concepts in Human Genetic Disease
MMG 1120Y ⁺	Clinical Rotations I
MMG 1122Y	Issues in Genetic Counselling I
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
MMG 1230H	Cancer Genetic Counselling

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

Molecular Genetics

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Molecular Genetics' additional admission requirements stated below.

Degree and Diploma Programs by Graduate Unit

- Normally, a BSc or MD degree or equivalent with excellent academic credentials in molecular biology, genetics, microbiology, and/or biochemistry. Applicants trained in other quantitative sciences (math, physics, chemistry, computer science, engineering, etc.) are also strongly encouraged to apply.

Program Requirements

- Successful completion of MMG 1010H, MMG 1012H⁰ (or equivalent), and MMG 1015Y⁰ (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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years

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

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Molecular Genetics' additional admission requirements stated below.
- Admission via one of three routes:
 1. admission into the PhD program with a completed MSc degree or equivalent from the University of Toronto or another recognized university
 2. reclassification to the PhD program during the first or second year in the MSc program
 3. 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 1010H, MMG 1012H⁰ (or equivalent), and MMG 1015Y⁰ (seminar course), MMG 1016H⁰ (or equivalent), and MMG 1017H⁰.
- 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

Degree and Diploma Programs by Graduate Unit

the doctoral program from a bachelor's program are required to spend a minimum of three sessions in full-time attendance.

- Successful completion of a Qualification Examination in the second year of the program.
- The Qualifying Exam consists of the submission of a written proposal and an oral examination.
- If a student is unsuccessful at the first attempt at the Qualifying Exam, there are three possible outcomes:
 - the student may retake the oral exam within four to eight weeks without revision of the written proposal;
 - the student may submit a revised written proposal and retake the oral exam within four to eight weeks;
 - or the student may withdraw from the program.

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

JBB 1425H	Biophysical Methods
JBB 2025H	Protein Crystallography
JDB 1024Y	Topics in Developmental Biology
JDB 1025H	Developmental Biology
JDB 1026Y	Student Seminars in Developmental Biology
MMG 1010H	Molecular Genetics Colloquium
MMG 1012H ⁰	Topics in Molecular Genetics I (formerly MMG 1012Y ⁰)
MMG 1015Y ⁰	Seminar
MMG 1016H ⁰	Topics in Molecular Genetics II (formerly MMG 1014Y ⁰)
MMG 1017H ⁰	Topics in Molecular Genetics III
MMG 1420H	Regulation of Gene Expression
MMG 1425H	Signal Transduction and Cell Cycle Regulation
MMG 1451H	Genetic Analysis of Development: Yeast and Worms

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

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

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
Cochrane, Alan - BSc, PhD
Cohn, Ronald - MD
Collins, Richard - BSc, PhD
Cordes, Sabine - BS, PhD
Cowen, Leah - BSc, PhD (**Associate Chair**)
Culotti, Joseph - PhD
Davidson, Alan Richard - BSc, PhD
Delgado Olguin, Paul - BSc, PhD
Dennis, James - PhD
Derry, W. Brent - BSc, MSc, PhD
Dick, John - PhD
Dirks, Peter - MD, PhD
Dowling, James - MD
Durocher, Daniel - PhD
Edwards, Aled - BSc, PhD
Egan, Sean - PhD
Ellis, James - PhD
Emili, Andrew - DPM, PhD
Ensminger, Alexander - BS, PhD
Ernst, Oliver - PhD
Frapplier, Lori - PhD
Fraser, Andrew - BSc
Funnell, Barbara - PhD (**Vice-Chair**)
Gallie, Brenda - MD
Giaever, Guri - BS, PhD
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
Joshi-Sukhwai, Sadhna - BSc, MSc, PhD, DSc
Justice, Monica - PhD

Degree and Diploma Programs by Graduate Unit

Kafri, Ran - BSc, MSc, PhD
Kaplan, David - BA, PhD
Kay, Lewis - PhD
Kim, Tae-Hee - PhD
Krause, Henry - BSc, PhD
Lavoie, Brigitte - PhD
Lefebvre, Julie - PhD
Lipshitz, Howard - PhD (**Chair and Graduate Chair**)
Liu, Jun - PhD
Meneghini, Marc - BSc, PhD
Meyn, Michael - MD
Miller, Freda - BSc, PhD
Moffat, Jason - BSc, PhD
Moran, Michael - BSc, PhD
Morris, Quaid - BS, PhD
Navarre, William - BSc, PhD
Nislow, Corey - BA, PhD
Okamoto, Kenichi - BS, MA, PhD
Osborne, Lucy - PhD
Pai, Emil - PhD
Parkinson, John - BS, PhD
Pawson, Anthony - PhD
Pearson, Bret - BS, PhD
Pearson, Christopher - PhD
Pelletier, Laurence - BSc, MSc, PhD
Ray, Peter - PhD
Rini, James - BSc, PhD
Rissland, Olivia - 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
Taipale, Mikko - PhD
Van Der Kooy, Derek - BSc, MA, PhD
Wilde, Andrew Rhys - BSc, PhD
Wrana, Jeff - PhD
Zhang, Zhaolei - BS, PhD
Zhen, Mei - PhD

Members Emeriti

Becker, Andrew - MD, PhD
Carver, Jeremy - BA, PhD
Sadowski, Paul - MD, PhD
Siminovitch, Louis - BSc, BSc, PhD

Associate Members

Babul-Hirji, Riyana - BSc, MSc
Chitayat, David - MD
Cytrynbaum, Cheryl - MSc
Druker, Harriet - MSc
Dupuis, Lucie - MSc
Kaiser, Amy - BA
Klatt, Regan - BSc, MSc
Koren, Gideon - MD
Lemmens, Trudo - LLM, DCL
Liston, Eriskay - BA, MSc
Mendoza, Roberto - MD
Myles Reid, Diane - BSc, MSc
Quercia, Nada - BS, MSc
Semotok, Jennifer - PhD
Shugar, Andrea - BSc, MS
Shuman, Cheryl - MSc
Steele, Leslie - BSc, MSc
Sutherland, Joanne - MSc
Thomas, Michal - MSc
Weksberg, Rosanna - MD, PhD
Winsor, Elizabeth - BSc, MSc, PhD
Yoon, Grace - MD
Zahavich, Laura - MSc

Music

Faculty Affiliation

Music

Degree Programs

Music

MA	<i>Fields:</i> Ethnomusicology Music and Health Music Education Musicology Music Theory
PhD	<i>Fields:</i> Ethnomusicology Music and Health Music Education Musicology Music Theory

Music Performance

MMus	<i>Fields :</i> Collaborative Piano Composition Conducting Historical Performance Instrumental Jazz Music Technology and Digital Media Opera Piano Pedagogy Vocal Vocal Pedagogy
DMA	<i>Fields:</i> Composition Performance

Combined Degree Programs

Music Education (Stream), Bachelor of Music (MusBac) / Master of Teaching (MT)

Collaborative Programs

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

- Aging, Palliative and Supportive Care Across the Life Course**
 - Music, MA, PhD
- Book History and Print Culture**
 - Music, MA, PhD
- Editing Medieval Texts**

- Music, PhD
- Human Development**
 - Music, PhD
 - Jewish Studies**
 - Music, MA, PhD
 - Music Performance, DMA
 - Neuroscience**
 - Music, MA, PhD
 - Sexual Diversity Studies**
 - Music, MA, PhD
 - 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 17 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 areas such as composition, ethnomusicology, music education, musicology, and performance. Graduates from all areas of the program occupy leading positions in music departments across Canada and around the world.

Contact and Address

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Graduate Department of Music
University of Toronto
Edward Johnson Building
80 Queen's Park Crescent
Toronto, Ontario M5S 2C5
Canada

Degree Programs Music

Master of Arts

The MA in Music degree is offered in four fields:

- Ethnomusicology
- Music Education
- Musicology
- Music Theory

Field: Ethnomusicology

Minimum Admission Requirements

- Applicants to the MA in Music, Ethnomusicology field are accepted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.

- 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:
 - MUS 1000H *Introduction to Music Research I* in Year 1.
 - MUS 1002H *Fieldwork Methods and Practicum*, offered in alternate years.
- 3.5 of the 6.0 FCEs must be in the discipline; this includes MUS 1000H.
- Up to 1.0 FCE may be taken outside of Musicology, Ethnomusicology, or Music Theory (either in the Graduate Department of Music or another graduate unit) with approval of the course and program advising committee.
- The primary means of evaluating quality are research essays and seminar presentations. MUS 1990H *MA Major Paper or Project* is optional.
- Students must maintain a minimum average of A- in Year 1 of the program in order to progress to Year 2.
- 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 1.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Field: Music and Health

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- A bachelor of music or bachelor of music therapy degree 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 who have taken courses in music therapy, psychology, kinesiology, and/or rehabilitation science are preferred. Applicants whose undergraduate

Degree and Diploma Programs by Graduate Unit

degree does not meet this standard may be required to take appropriate prerequisite courses.

- Selected applicants will be scheduled for an interview. Depending on circumstances, an assigned essay may be substituted for the interview with faculty approval.
- Two letters of reference commenting on the applicant's professional performance and promise.

Program Requirements

- Students must complete 4.0 full-course equivalents [FCEs]) as follows:
 - Required courses (1.5 FCEs)
 - a research course most appropriate to the student's interest; e.g., MUS 2111H for social science methods, MUS 1000H for medical ethnographic methods, or a quantitative methods course from another graduate unit as approved (0.5 FCE)
 - MUS 2122H *Music and Brain* (0.5 FCE)
 - MUS 1232H *Music, Culture and Health* **or** MUS 1234H *Health, Aging and Popular Music* (0.5 FCE)
 - Elective music course (0.5 FCE) selected from the following:
 - MUS 4248H *Optimizing the Singing Mind* **or**
 - MUS 4613H *Performance Techniques for Palliative Care* **or**
 - other health-related music courses offered at the graduate level
 - Elective courses (2.0 FCEs) from outside music:
 - courses may be selected from graduate units such as Anthropology; Applied Psychology and Human Development; Curriculum, Teaching and Learning; Exercise Sciences; Leadership, Higher and Adult Education; Psychology; Public Health Sciences; Rehabilitation Science; Social Justice Education; Social Work; and Speech-Language Pathology with the approval of the Music and Health faculty advisor;

and/or

- students may choose to enrol in a recommended collaborative program during their study, such as the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course or the Collaborative Program in Neuroscience (CPIN). The course(s) taken as part of the collaborative program may count towards this elective requirement.
- All students are assigned a faculty advisor.
- Students must pass, by the end of Year 1, a comprehensive examination (oral) in music and health, based on four selected essays representing a cohesive research direction. Two attempts to complete the exam are permitted. If the second

Degree and Diploma Programs by Graduate Unit

attempt is unsuccessful, the department will recommend termination of the student's program.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Field: Music Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- 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). Students must successfully complete the comprehensive exam by the end of Year 1. Students are permitted two attempts to complete the exam. If student are unsuccessful in their second attempt at the

comprehensive exam, the department will make a recommendation for program termination.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Field: Musicology

Minimum Admission Requirements

- Applicants to the MA in Music, Musicology field are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- 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 the field of Musicology requires 6.0 full-course equivalents (FCEs) including:

- *Introduction to Music Research I* (MUS 1000H) in Year 1.
- 3.5 of the 6.0 FCEs must be in the discipline; this includes MUS 1000H.
- Up to 1.0 FCE may be taken outside of Musicology, Ethnomusicology, or Music Theory (either in the Graduate Department of Music or another graduate unit) with approval of the course and program advising committee.
- The primary means of evaluating quality are research essays and seminar presentations. MUS 1990H *MA Major Paper or Project* is optional.
- One language other than English is required; this is ordinarily German. Other languages may be requested by petition to the Division and the Graduate Department of Music during Year 1. Students must fulfil the language requirement during Year 1 by:
 - completing GER 300H at U of T or its equivalent from another university with a minimum grade of B+, or
 - completing GER 6000H, or
 - passing a proficiency exam set by the Division and Department.

Degree and Diploma Programs by Graduate Unit

- Students must maintain a minimum average of A- in Year 1 in order to progress to Year 2.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Field: Music Theory

Minimum Admission Requirements

- Applicants to the MA in Music, Music Theory field are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- 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 must submit an essay that represents their work in music theory.

Program Requirements

- Students must complete 6.0 full-course equivalents (FCEs) as follows:
 - MUS 1000H *Introduction to Music Research* (0.5 FCE) in Year 1
 - a minimum of 3.0 FCEs in graduate courses in music theory; at least two of these (2.0 FCEs) must be graduate-only seminars.
 - Up to 1.0 FCE may be taken outside of musicology, ethnomusicology, and music theory (either in the Graduate Department of Music or another graduate unit) with approval of the department.
 - MUS 1990H *MA Major Paper* (0.5 FCE) is optional.
- One language other than English is required; this is ordinarily German. Other languages may be requested by petition to the Division and the Graduate Department of Music during Year 1. Students must fulfil the language requirement during Year 1 by:
 - completing GER 300H at U of T or its equivalent from another university with a minimum grade of B+, or
 - completing GER 6000H, or
 - passing a proficiency exam set by the Division and Department.
- Students must maintain a minimum average of A- in Year 1 in order to progress to Year 2.
- A course and program advising (CPA) committee will review course selections. The CPA committee will ensure course selections meet the requirements of the program and are appropriate to the field.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

The PhD in Music degree is offered in three fields:

- Ethnomusicology
- Music Education
- Musicology

Field: Ethnomusicology

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- The PhD in Music, Ethnomusicology field 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

- A course and program advising (CPA) committee will review course selections. The CPA committee will ensure course selections meet the requirements of the program and are appropriate to the field. 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.
- Students holding a master's degree specializing in musicology, ethnomusicology, or theory must fulfil the following requirements:
 - 3.0 full-course equivalents (FCEs) as follows:
 - MUS 1250H *PhD Seminar* (taken in the first session)
 - MUS 1997H *Research in Ethnomusicology*
 - 1.0 FCE in graduate-only seminars in music theory
 - 1.0 FCE in electives, of which 0.5 FCE may be taken outside of musicology, ethnomusicology, and music theory (either in

Degree and Diploma Programs by Graduate Unit

the Graduate Department of Music or another graduate unit). With approval from the CPA committee, one 0.5 FCE course may be deferred to the first session of Year 2.

- Coursework should be completed during Year 1 with an average grade of at least A-. The exception is MUS 1997H *Research in Ethnomusicology*, which lays the groundwork for the major field examination and the dissertation: this course must be started at the beginning of the second session of Year 1 and completed by the end of the first session of Year 2.
- 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 2.
- During Year 1, 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.
- A set of three comprehensive exams in (1) contemporary issues, (2) history of the field, and (3) repertoire, to be taken at the beginning of Year 2.
- Students are permitted two attempts to complete each exam. A second attempt must take place at the beginning of the second session. If students are unsuccessful in their second attempt at the comprehensive exam, the department will make a recommendation for program termination.
- All course requirements must be completed by the end of Year 2.
- Students must prepare a thesis and will defend it at a Doctoral Final Oral Examination.
- The residency requirement for all students is three years.
- **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 1. All language requirements must be completed by Year 3.
 - Students must take 3.0 FCEs in Year 1, 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 2, 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 3.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Field: Music and Health

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- Applicants must hold a four-year bachelor's degree, either in music (or with a musical credential [e.g., ARCT]) or music therapy, plus a field-related master's degree (e.g., master of music, master of music therapy, master's degree in a health field such as kinesiology, neuroscience, or speech-language pathology). Applicants must have a standing of B+ or better, from the University of Toronto, or an equivalent degree and standing from another recognized university.
- An interview with Music and Health faculty members whenever possible. With faculty approval, an assigned essay may be substituted for the interview.
- Appropriate letters of reference commenting on the applicant's professional experience and academic ability.

Program Requirements

The PhD in Music, Music and Health field is a full-time program.

- Students must complete 6.0 full-course equivalents (FCEs) as follows:
 - Required courses (1.5 FCEs):
 - A research course (0.5 FCE) (if taken in the master's degree, this course will be replaced by a 0.5 FCE elective)
 - MUS 2995 *Doctoral Research Project* (1.0 FCE) or equivalent
 - Elective courses (4.5 FCEs):
 - Music courses: MUS 2122H *Music and Brain* (0.5 FCE), MUS 1232H *Music, Culture and Health* (0.5 FCE) or MUS 1234H *Health, Aging and Popular Music*, MUS 4248H *Optimizing the Singing Mind*, MUS 4613H *Performance Techniques for Palliative Care*, other health-related music courses offered at the graduate level.
 - Electives from related departments as approved by the advisor. Students in the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course or

Degree and Diploma Programs by Graduate Unit

the Collaborative Program in Neuroscience (CPIN) may use the core course(s) from the collaborative program for these electives.

- The balance of the student's coursework must be approved by the department and may include courses from the MA/MMus/PhD/DMA list and/or from another graduate unit, such as Anthropology; Applied Psychology and Human Development; Curriculum, Teaching and Learning; Exercise Sciences; Leadership, Higher and Adult Education; Psychology; Public Health Sciences; Rehabilitation Science; Social Justice Education; Social Work; and Speech-Language Pathology.
- Students must be registered full-time, on campus for a minimum of six 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 2, the student will submit a thesis proposal that must be approved by the end of that year. On approval of the proposal by the Music and Health division, 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.
- Students must complete a comprehensive examination successfully by the end of Year 2. Students are permitted two attempts to complete the exam. If the second attempt is unsuccessful, the department will recommend termination of the student's program.
- Upon successful completion of the major field examination, the candidate proceeds to complete an oral defence of the thesis proposal, a thesis, and an oral defence of the thesis.
- Following successful completion of the comprehensive exam, a thesis supervisory committee is formed. The committee membership must be approved by the Academic Dean of Graduate Studies and should include at least one member from the Faculty of Music. The supervisor may be from an appropriate department. The supervisory committee must approve the thesis proposal. Thesis research involving facilities or research participants in other departments (e.g., fMRI scanning or use of hospital patients) must be approved by the Director of the Music and Health Research Collaboratory (MaHRC).

Program Length

4 years full-time

Time Limit

6 years full-time

Field: Music Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- Applicants must hold a master's degree specializing in Music Education from the University of Toronto 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, Music Education field 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 2, 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,

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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.

- Students must successfully complete a comprehensive exam by the end of Year 2. Students are permitted two attempts to complete the exam. If students are unsuccessful in their second attempt at the comprehensive exam, the department will make a recommendation for program termination.
- 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.

The residency requirement for full-time and flexible-time students is two years.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Field: Musicology

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- The PhD in Music, Musicology field 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 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

- A course and program advising (CPA) committee will review course selections. The CPA committee will ensure course selections meet the requirements of the program and are appropriate to the field. Students may be required to take additional courses or acquire other skills to meet the needs of their proposed subjects of study.
- Students holding a master's degree specializing in musicology, ethnomusicology, or theory must fulfil the following requirements:
 - A minimum of 3.0 full-course equivalents (FCEs) as follows:
 - MUS 1250H *PhD Seminar* is taken in the first session
 - MUS 1999H *Research in Musicology*
 - 1.0 FCE in graduate-only seminars in musicology
 - 1.0 FCE in electives, of which 0.5 FCE may be taken outside of Musicology, Ethnomusicology, and Music Theory (either in the Graduate Department of Music or another graduate unit). With approval from the CPA committee, one 0.5 FCE course may be deferred to the first session of Year 2.
 - Coursework should be completed during Year 1 of study with an average grade of at least A-. The exception is MUS 1999H, which lays the groundwork for the major field examination and the dissertation: this course must be started at the beginning of the second session of Year 1 and completed by the end of the first session of Year 2.
 - A set of three (written) comprehensive exams in (1) contemporary issues, (2) history of the field, and (3) repertoire, to be taken at the beginning of Year 2.
 - Students are permitted two attempts to complete each exam. A second attempt must take place at the beginning of the second session. If students are unsuccessful in their second attempt at the comprehensive exam, the department will make a recommendation for program termination.
- Students must demonstrate an advanced reading knowledge of German by passing a written exam set by the Division and the Graduate Department of Music. With the permission of the Division

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and Department, another language (other than English) may be substituted, provided that it is required in carrying out the approved research area. The Division and 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 2.

- 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.
- The residency requirement for all students is two years.
- **Direct-entry PhD:** direct-entry students must complete:
 - 3.0 FCEs at the graduate level in Year 1 with a minimum average of A-.
 - An intermediate-level language exam in Year 1. All language requirements (including an advanced knowledge of German or its approved alternate) must be completed by Year 3.
 - Following successful completion of Year 1, students must then complete all program requirements of the four-year PhD program.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Field: Music Theory

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- The PhD in Music, Music Theory field is a research degree. Applicants must hold a master's degree with appropriate specialization (normally music theory or musicology), and must have an average standing of B+ or better.
- Applicants must submit an essay of approximately 3,000 words pertaining to music theory and which demonstrates their ability to handle a research problem.
- Applicants, whether from the University of Toronto or elsewhere, may be interviewed by the department.
- Direct-entry PhD: exceptional students may be admitted directly to the doctoral stream with an appropriate four-year University of Toronto bachelor's degree (normally in music theory or musicology), or its equivalent from a recognized university, with at least an A- average in courses.

Applicants must submit an essay of approximately 3,000 words pertaining to music theory and which demonstrates their ability to handle a research problem.

Program Requirements

- A course and program advising (CPA) committee will review course selections. The CPA committee will ensure course selections meet the requirements of the program and are appropriate to the field.
- Students must complete of a minimum of 3.0 full-course equivalents (FCEs) including:
 - MUS 1250H *PhD Seminar* (taken in the first session).
 - MUS 3997H *Research in Music Theory*
 - 1.0 FCE in graduate-only seminars in music theory
 - 1.0 FCE in electives, of which 0.5 FCE may be taken outside of musicology, ethnomusicology, and music theory (either in the Graduate Department of Music or another graduate unit). With approval from the CPA committee, one 0.5 FCE course may be deferred to the first session of Year 2.
- Coursework should be completed during Year 1 with an average grade of at least A-. The exception is MUS 3997H *Research in Music Theory*, which lays the groundwork for the major field examination and the dissertation: this course must be started at the beginning of the second session of Year 1 and completed by the end of the first session of Year 2.
- A set of three (written) comprehensive exams in (1) history of the field; (2) current issues in the field; and (3) repertoire and analysis, to be taken at the beginning of Year 2.
- Students are permitted two attempts to complete each exam. A second attempt must take place at the beginning of the second session. If the second attempt is unsuccessful, the department will recommend termination of the student's program.
- 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 an advanced reading knowledge of German by passing a written exam set by the Division and the Graduate Department of Music. With the permission of the Division and Department, another language (other than English) may be substituted, provided that it is required in carrying out the approved research area. The Division and 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 2.
- Students must prepare a thesis under the direction of an advisor and a committee and defend it at a Doctoral Final Oral Examination. The thesis, including bibliography and appendices, should

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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:** direct-entry students must complete:
 - 3.0 FCEs at the graduate level in Year 1 with a minimum average of A-.
 - An intermediate-level language exam in Year 1. All language requirements (including an advanced knowledge of German or its approved alternate) must be completed by Year 3.
 - Following successful completion of Year 1, students must then complete all program requirements of the four-year PhD program.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Course List

Final course offerings may vary. Students should consult the departmental handbook.

MA/PhD in Music

Field: Ethnomusicology/Musicology

MUS 1000H	Introduction to Music Research I
MUS 1001H	Approaches to Musicology
MUS 1002H	Fieldwork Methods and Practicum
MUS 1013H	Monteverdi's Madrigals
MUS 1055H	Oratorio
MUS 1057H	Performing Politics: Individuality and the Collective in Music and Dance
MUS 1058H	Music and Politics
MUS 1059H	Ars Nova
MUS 1061H	Performance Space in Seventeenth-Century Music
MUS 1066H	Music and the Racial and Ethnic Imaginations
MUS 1067H	Orpheus
MUS 1068H	Music and Jewish Identity
MUS 1106H	Early Music in Canada
MUS 1119H	Music and Ceremonial 1550–1700
MUS 1120H	The Church Cantatas of J. S. Bach
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 1143H	Musitopias: Cultures of Imagination
MUS 1144H	Music in the Films of Sir Alfred Hitchcock
MUS 1202H	Music of the Mid-Eighteenth Century
MUS 1204H	Orientalism and Opera: Interdisciplinary Approaches
MUS 1215H	Music in Cities and Courts 1575–1750
MUS 1223H	Virtuosity in Baroque Music
MUS 1230H	The Cultural Geography of Music and Sound
MUS 1232H	Music, Culture, and Health
MUS 1234H	Health, Aging and Popular Music
MUS 1236H	Haydn
MUS 1243H	The Italian in Handel
MUS 1244H	Rhythm and Metre in Cross-Cultural Perspective
MUS 1246H	Music and Colonialism
MUS 1247H	Sounds and Discourses of Hybridity in Latin American and Caribbean Music
MUS 1249H	Music and Technoculture
MUS 1250H	PhD Seminar
MUS 1254H	Critical Approaches to Popular Music
MUS 1256H	Indigeneities
MUS 1260H	Music and the Enlightenment
MUS 1262H	Symphonies of Gustav Mahler
MUS 1265H	Critical Approaches to the Music of Benjamin Britten
MUS 1266H	Music, Space, and Place
MUS 1267H	Popular Music and Identity
MUS 1268H	Musical Life in Bali
MUS 1269H	Advanced Research in Indian Music
MUS 1270H	Music and East Asian Modernity
MUS 1271H	Music and Circulation
MUS 1272H	19th Century Music and Discourses of Nature
MUS 1273H	Music in the Western: From Singing Cowboys to <i>Django Unchained</i>
MUS 1274H	Music in Paris: 1871–1914
MUS 1275H	Sound and Music in the Middle East
MUS 1276H	Music and Material Culture

MUS 1317H	Music in Canada
MUS 1327H	The Social Poetics of Music
MUS 1990H	MA Major Paper or Project
MUS 1997H	Research in Ethnomusicology
MUS 1998H	Individual Reading and Research
MUS 1999H ⁰	Research in Musicology
MUS 3101H	Seminar in Schenkerian Analysis I
MUS 3309H	Brahms: Symphonies and Chamber Music
MUS 3412H	Theories of Rhythm and Metre

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

MA/PhD in Music

Field: Music Education

MUS 2001H	Music in Cultural Perspective
MUS 2004H	Music in Childhood
MUS 2010H	Seminar in Music Education
MUS 2111H	Introduction to Research in Music Education
MUS 2112H	Advanced Topics in Research in Music Education (prerequisite: MUS 2111H)
MUS 2113H	Musically Queer
MUS 2122H	Music and Brain
MUS 2132H	Jazz Education
MUS 2151H	Philosophy and Music Education
MUS 2160H	Contemporary Perspectives in Music Education
MUS 2167H	Curriculum Inquiry
MUS 2175H	Teacher Perspectives in Music Education
MUS 2176H	Social Psychology of Music
MUS 2180H	Seminar in Canadian Music Education
MUS 2182H	Writing in Music Education
MUS 2185H	Curriculum and Instruction in Instrumental Music
MUS 2199H ⁰	Special Topics in Music Education
MUS 2203H	The Development of Wind Band
MUS 2222H	Conducting and Teaching Choral Music I
MUS 2223H	Conducting and Teaching Choral Music II

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MUS 2400H	Introduction to Music in Health Care
MUS 2990Y ⁰	MA Major Essay (Music Education)
MUS 2995Y ⁰	Music Education Doctoral Research Project
MUS 2998H	Reading in Advanced Topics in Music Education

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

MA/PhD in Music

Field: Music Theory

MUS 1250H	PhD Seminar
MUS 1990H	MA Major Paper
MUS 1998H	Individual Reading and Research
MUS 3101H	Seminar in Schenkerian Analysis I
MUS 3208H	The String Quartet in the Twentieth Century
MUS 3228H	Recent Approaches to Classical Form
MUS 3232H	Romantic Form
MUS 3245H	Music of Ligeti and Lutoslawski
MUS 3248H	Current Compositional Practices
MUS 3252H	The Early Music of Arnold Schoenberg
MUS 3306H	Pedagogy of Music Theory
MUS 3309H	Brahms: Symphonies and Chamber Music
MUS 3403H	Theory and Analysis of Atonal Music
MUS 3404H	Extended Tonal Techniques in Twentieth-Century Music
MUS 3412H	Theories of Rhythm and Metre
MUS 3413H	Music and Drama in Wagner's <i>Ring des Nibelungen</i>
MUS 3997H	Research in Music Theory

Combined Degree Program: Music Education (Stream), Bachelor of Music / Master of Teaching

For full details, please see the Music Education (Stream), Bachelor of Music / Master of Teaching entry in the Combined Degree Programs section of this calendar.

Degree and Diploma Programs by Graduate Unit

Music Performance

Master of Music

The Master of Music (MMus) degree in Music Performance is offered in 11 fields:

- Collaborative Piano
- Composition
- Conducting
- Historical Performance
- Instrumental
- Jazz
- Music Technology and Digital Media
- Opera
- Piano Pedagogy
- Vocal
- Vocal Pedagogy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- Applicants to the 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.
- Additional requirements for each field as follows:
 - Field: Collaborative Piano
Selected applicants must pass an audition.
 - Field: Composition
Applicants must submit several original compositions, at least one of which shall be with moderately large instrumentation.
 - Field: Conducting
Selected applicants must pass an audition.
 - Field: Historical Performance
Selected applicants must pass an audition.
 - Field: Instrumental
Selected applicants must pass an audition.
 - Field: Jazz
Selected applicants must pass an audition.
 - Field: Music Technology and Digital Media
 - Applicants must submit a portfolio (e.g., scores, recordings, multimedia creations) that demonstrates at least two of the following:
 1. knowledge of computer applications in music;
 2. competency in music performance or composition (acoustic or digital);
 3. released body of musical works/recordings as composer, sound engineer, or producer.
 - Selected applicants must pass an audition and interview.
 - Field: Opera
Selected applicants must pass an audition.
 - Field: Piano Pedagogy

Selected applicants must pass an audition.

Field: Vocal

Selected applicants must pass an audition.

Field: Vocal Pedagogy

Selected applicants must pass an audition.

Program Requirements

Field: Collaborative Piano

- 7.0 full-course equivalents (FCEs) including:
 - MUS 4444Y and MUS 4445Y (applied lessons).
 - 1.0 FCE MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
 - 1.0 FCE selected from MUS 4600H; MUS 4610H; MUS 4615H.
 - 0.5 FCE MUS 4213H *Advanced Repertoire for Singers and Pianists I*.
 - 0.5 FCE MUS 4214H *Advanced Repertoire for Singers and Pianists II*.
 - 0.5 FCE MUS 4502H *Collaborative Piano Techniques I*.
 - 0.5 FCE MUS 4506H *Sonata Coaching I*.
 - MUS 4508H *Collaborative Piano Techniques II Instrumental* or MUS 4509H *Collaborative Piano Techniques II Vocal*.
 - 0.5 course elective.
- Based on the outcome of preliminary consultations with the department, students may be required to take MUS 4520H *Advanced Diction Studies—French*, MUS 4521 *Advanced Diction Studies—Italian*, or MUS 4522H *Advanced Diction Studies—German*.
- Two recitals.

Field: Composition

- Minimum of 6.0 full-course equivalents (FCEs) 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: Conducting

- 8.0 full-course equivalents (FCEs) including:
 - 1.0 FCE MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
 - 1.0 FCE selected from MUS 4600H or MUS 4606H; MUS 4610H; MUS 4615H.
 - 1.0 FCE *Applied Music I* (MUS 4444Y).
 - 1.0 FCE *Applied Music II* (MUS 4445Y).
 - Orchestral conducting majors must also complete MUS 4220H, MUS 4221H, MUS 4222Y, MUS 4223H, and 0.5 FCE elective.

- Wind ensemble conducting majors must also complete MUS 4226H, MUS 4227H, and MUS 4228Y.
- Choral conducting majors must also complete MUS 4220H, MUS 4223H, MUS 4224H, MUS 4225Y, MUS 4230Y, and MUS 4700H (choral).
- Two public performances.

Field: Historical Performance

- 7.0 full-course equivalents (FCEs), of which 5.0 FCEs must include:
 - 2.0 FCEs MUS 4444Y and MUS 4445Y (applied lessons).
 - 1.0 FCE MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
 - 1.0 FCE selected from MUS 4600H or MUS 4606H, MUS 4610H, and MUS 4615H.
 - 1.0 FCE in large ensembles—MUS 4774H and MUS 4775H or MUS 4776H and MUS 4777H.
- In addition, students will complete 2.0 FCEs in electives from a specified list approved by the department.
- Two recitals (MUS 6666Y and MUS 8888Y), one in each year. Recitals may include a chamber component with the approval of the department.

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 MUS 4200Y *Seminar in Music Literature*, normally taken in the first year of the program.
 - 1.0 FCE selected from MUS 4600H or MUS 4606H; MUS 4610H; MUS 4615H.
 - Students in brass, percussion, strings, and woodwinds will complete 1.0 FCE as two years of ensemble performance. Placement to be determined by audition.
 - In place of the ensemble performance, accordion, guitar, harp, harpsichord, organ, and piano students will select 1.0 FCE in elective courses from a specified list approved by the department.
- Two recitals. Recitals may include a chamber music component with the approval of the department.

Field: Jazz

- 7.0 full-course equivalents (FCEs) including:
 - MUS 4444Y, MUS 4445Y, MUS 4300Y, normally taken in Year 1.
 - 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:

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- 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: Music Technology and Digital Media

- 7.0 full-course equivalents (FCEs) as follows:
 - Year 1 (3.5 FCEs)
 - MUS 2112H *Music and Brain* (0.5 FCE)
 - MUS 3614H *Sound Recording I* (0.5 FCE)
 - MUS 3615H *Sound Recording II* (0.5 FCE)
 - MUS 3611H *Computer Applications in Music I* (0.5 FCE)
 - MUS 3612H *Computer Applications in Music II* (0.5 FCE)
 - MUS 3618H *Studio Orchestration and Arranging* (0.5 FCE)
 - MUS 3613H *Musical Acoustics* (0.5 FCE)
 - Year 2 (3.5 FCEs)
 - MUS 3616H *Sound Recording III* (0.5 FCE)
 - MUS 3617H *Sound Recording IV* (0.5 FCE)
 - MUS 3610H *Music Entrepreneurship* (0.5 FCE)
 - JDM 3619H *Digital Media Distribution* (0.5 FCE)
 - One elective half course (0.5 FCE) selected from an approved department list, or from another graduate unit, with permission.
 - MUS 3666Y Music Technology and Digital Media Major Project (1.0 FCE) (CR/NCR), completed in Year 2, consisting of a new musical composition or version recorded, mixed, produced, and mastered, integrating at least two media such as electronic and acoustic, music for picture, or live performance with multimedia.

Field: Opera

- 7.0 full-course equivalents (FCEs) as follows:
 - MUS 4444Y and MUS 4445Y (applied lessons).
 - 1.0 FCE MUS 4200Y *Seminar in Music Literature*, taken in Year 1.
 - MUS 4513Y *Operatic Repertory*, taken in Year 2.
 - 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: Piano Pedagogy

- 7.0 full-course equivalents (FCEs) as follows:

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- MUS 4444Y and MUS 4445Y (applied lessons).
- 1.0 FCE MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
- 1.0 FCE selected from MUS 4600H, MUS 4610H, MUS 4615H.
- MUS 4270H, MUS 4271H, MUS 4272H, and MUS 4273H.
- 1.0 FCE chosen from MUS 2122H, MUS 4730H to 4733H, MUS 4620Y, or from a list of courses approved by the department
- Two recitals. With approval, one recital may be replaced by a pedagogy project and presentation.

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 MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
 - 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 Pedagogy

- 8.0 full-course equivalents (FCEs) as follows:
 - MUS 4444Y and MUS 4445Y (applied lessons).
 - 1.0 FCE MUS 4200Y *Seminar in Music Literature*, normally taken in Year 1.
 - 1.0 FCE selected from MUS 4600H, MUS 4610H, and MUS 4615H.
 - MUS 2122H, MUS 4240Y, MUS 4241Y, 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Musical Arts

The Doctor of Musical Arts (DMA) degree in Music Performance is offered in two fields:

- Composition
- Performance

Field: Composition

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- Applicants for the DMA in the Composition field must hold a Master of Music Performance degree specializing 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 totalling 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.
- The residency requirement for all students is two years.

Program Length

4 years full-time

Time Limit

6 years full-time

Field: Performance

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Music's additional admission requirements stated below.
- Applicants for the DMA in the Performance field must hold a Master of Music degree specializing 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.

- 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.
 - MUS 4844Y *Advanced Applied Music I* and MUS 4845Y *Advanced Applied Music II*.
 - The remaining 2.0 FCEs must be graduate seminar courses.
- Coursework should be completed by the end of Year 2 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 2, 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.
- Students are permitted two attempts to complete the major field examination. If students are unsuccessful in their second attempt at the major field examination, the department will make a recommendation for program termination.
- Three DMA recitals: MUS 4866Y, MUS 4877Y, and MUS 4888Y. The format of these recitals will be determined in consultation with the major teacher and the supervisory committee.
- Reading knowledge of 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 2.
- The residency requirement for all students is two years.

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.

MMus/DMA in Music Performance

Field: 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 3112H	Bartok for Composers
MUS 3204H	Advanced Orchestration
MUS 3208H	The String Quartet in the Twentieth Century
MUS 3212H	Music and Popular Entertainments
MUS 3213H	Composing for Chamber Ensemble
MUS 3221H	Sequencing and Improvisation in Music for Electronic Media
MUS 3222H	Composing for Film
MUS 3224H	Sonata Form
MUS 3225H	Music of Gubaidulina, Coulthard, and Chen
MUS 3227H	Composing for Film 2
MUS 3228H	Recent Approaches to Classical Form
MUS 3229H	The Twentieth-Century Symphony
MUS 3230H	The Music of Messiaen, Schnittke, and Part
MUS 3232H	Romantic Form: The Orchestral Music of Berlioz, Mendelssohn, Schumann, and Wagner
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 3250H	Alternatives: Music Out of the Mainstream
MUS 3252H	The Early Music of Arnold Schoenberg (1893–1908)
MUS 3254H	Lessons from Beethoven
MUS 3256H	Orchestral Techniques of Contemporary Composers
MUS 3258H	Songwriting (prerequisite: MIDI Orchestration and Improvisation)
MUS 3300Y	DMA Advanced Composition I
MUS 3305Y	DMA Advanced Composition II

Degree and Diploma Programs by Graduate Unit

MUS 3306H	Pedagogy of Music Theory
MUS 3309H	Brahms: Symphonies and Chamber Music
MUS 3312H	The Present State of Music
MUS 3315H	Prokofiev
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 3888Y ⁰	DMA Recital of Works
MUS 3990Y	MMus Composition Thesis
MUS 3998H	Reading and Research in Composition
MUS 3999Y ⁰	Research Project (DMA)
MUS 4615H	Analysis and Performance Practices of Twentieth-Century Music

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

MMus in Music Performance

Field: Music Technology and Digital Media

MUS 3610H	Music Entrepreneurship
MUS 3611H	Computer Applications in Music I
MUS 3612H	Computer Applications in Music II (prerequisite: MUS 3611H)
MUS 3613H	Musical Acoustics (exclusion: TMU 127H)
MUS 3614H	Sound Recording I
MUS 3615H	Sound Recording II (prerequisites: MUS 3611H and MUS 3614H)
MUS 3616H	Sound Recording III (prerequisites: MUS 3612H and MUS 3615H)
MUS 3617H	Sound Recording IV (prerequisites: MUS 3612H and MUS 3616H)
MUS 3618H	Studio Orchestration and Arranging

JDM 3619H	Digital Media Distribution (Credit/No Credit)
MUS 3666Y	Music Technology and Digital Media Major Project (Credit/No Credit)

MMus/DMA in Music Performance

Field: 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 4240Y	Introduction to Voice Pedagogy and Vocology
MUS 4241Y	Advanced Vocal Pedagogy and Vocology
MUS 4242Y	Advanced Concepts in Singing and Vocology
MUS 4248H	Optimizing the Singing Mind
MUS 4270H	Piano Pedagogy: Beginning and Intermediate Levels
MUS 4271H	Practicum: Beginning and Intermediate Levels
MUS 4272H	Piano Pedagogy: Advanced and University Levels
MUS 4273H	Practicum: Advanced and University Levels
MUS 4295H	Music Research for Performers
MUS 4298H	Readings and Research in Performance Studies

MUS 4230H	Vocal-Choral Pedagogy for Conductors (prerequisite: graduate standing in the choral conducting, voice performance, or music education program, and permission of instructors)
MUS 4300Y	Seminar in Jazz Studies
MUS 4310Y	Advanced Jazz Composition and Arranging I
MUS 4311Y	Advanced Jazz Composition and Arranging II
MUS 4312H	Advanced Jazz Improvisation
MUS 4420H	Fretboard Harmony: Common Practice Harmony on the Guitar
MUS 4425H	Guitar Pedagogy: Method and Practice
MUS 4435H	History and Literature of the Guitar
MUS 4444Y	Applied Music I
MUS 4445Y	Applied Music II
MUS 4500H	Advanced Diction Studies
MUS 4502H	Collaborative Piano Techniques I
MUS 4504H	Advanced Song Studies for Pianists
MUS 4506H	Sonata Coaching I
MUS 4507H	Sonata Coaching II
MUS 4508H	Collaborative Piano Techniques II—Instrumental (prerequisite: MUS 4502H Collaborative Piano Techniques I)
MUS 4509H	Collaborative Piano Techniques II Vocal (prerequisite: MUS 4502H Collaborative Piano Techniques I)
MUS 4510H	Opera Performance for Pianists
MUS 4512H	Operatic Répétiteur
MUS 4513H	Operatic Repertory Studies
MUS 4520H	Advanced Diction Studies I (French)
MUS 4521H	Advanced Diction Studies II (German)
MUS 4523H	Advanced Diction Studies (English)
MUS 4600H	Performance Practices Before 1800
MUS 4606H	Special Topics in Performance Practice
MUS 4608H	World Music Ensembles: Practical and Analytical Studies
MUS 4610H	Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries

Degree and Diploma Programs by Graduate Unit

MUS 4613H	Performance Techniques for Hospice Palliative Care
MUS 4615H	Analysis and Performance Practices of Twentieth-Century Music
MUS 4700H	Major Ensemble I
MUS 4701H	Major Ensemble II
MUS 4702H	Major Ensemble III
MUS 4703H	Major Ensemble IV
MUS 4706H	Contemporary Chamber Ensemble I
MUS 4707H	Contemporary Chamber Ensemble II
MUS 4708H	Contemporary Chamber Ensemble III
MUS 4709H	Contemporary Chamber Ensemble IV
MUS 4710H	Chamber Music I
MUS 4711H	Chamber Music II
MUS 4712H	Chamber Music III
MUS 4713H	Chamber Music IV
MUS 4714H	Chamber Choir I
MUS 4715H	Chamber Choir II
MUS 4716H	Chamber Choir III
MUS 4717H	Chamber Choir IV
MUS 4720H	Opera I
MUS 4721H	Opera II
MUS 4722H	Opera III
MUS 4723H	Opera IV
MUS 4730H	Performance Studies I
MUS 4731H	Performance Studies II
MUS 4732H	Performance Studies III
MUS 4733H	Performance Studies IV
MUS 4740H	Small Group Jazz Performance I
MUS 4741H	Small Group Jazz Performance II
MUS 4742H	Small Group Jazz Performance III
MUS 4743H	Small Group Jazz Performance IV
MUS 4747H	Baroque String Repertoire
MUS 4750H	Jazz Orchestra I
MUS 4751H	Jazz Orchestra II
MUS 4752H	Jazz Orchestra III
MUS 4753H	Jazz Orchestra IV
MUS 4760H	Vocal Jazz Ensemble I
MUS 4761H	Vocal Jazz Ensemble II
MUS 4762H	Vocal Jazz Ensemble III
MUS 4763H	Vocal Jazz Ensemble IV

Degree and Diploma Programs by Graduate Unit

MUS 4770H	Oratorio Ensemble I
MUS 4771H	Oratorio Ensemble II
MUS 4772H	Oratorio Ensemble III
MUS 4773H	Oratorio Ensemble IV
MUS 4774H	Schola Cantorum I
MUS 4775H	Schola Cantorum II
MUS 4776H	Collegium Musicum I
MUS 4777H	Collegium Musicum I
MUS 4780H	World Music Ensemble I
MUS 4781H	World Music Ensemble II
MUS 4782H	World Music Ensemble III
MUS 4783H	World Music Ensemble IV
MUS 4785H	Orchestral Studies I
MUS 4786H	Orchestral Studies II
MUS 4787H	Orchestral Studies III
MUS 4788H	Orchestral Studies IV
MUS 4790H	Instrumental Performance Class I
MUS 4791H	Instrumental Performance Class II
MUS 4792H	Instrumental Performance Class III
MUS 4793H	Instrumental Performance Class IV
MUS 4795H	Piano/Instrumental I
MUS 4796H	Piano/Instrumental II
MUS 4797H	Piano/Instrumental III
MUS 4798H	Piano/Instrumental IV
MUS 4800H	DMA Seminar
MUS 4810H	Seminar in Performance Literature
MUS 4815H	Seminar in Performance Pedagogy
MUS 4816H	Researching Performance/Performing Research
MUS 4820H	DMA Study in Masterclass Teaching
MUS 4821H	DMA Study in Undergraduate Piano Pedagogy
MUS 4822H	DMA Study in Piano Studio Teaching
MUS 4838H	Twentieth- and Twenty-First-Century Interpretive Analysis
MUS 4844Y	Advanced Applied Music I
MUS 4845Y	Advanced Applied Music II
MUS 4866Y	DMA Recital I
MUS 4877Y	DMA Recital II
MUS 4888Y	DMA Recital III
MUS 4899H	Research in Performance

MUS 4900Y	Operatic Studies I
MUS 4901Y	Operatic Studies II
MUS 4966Y ⁰	Operatic Roles I
MUS 4988Y ⁰	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 6666Y ⁰	Recital I
MUS 8888Y ⁰	Recital II

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

Courses Recognized for MMus in Music 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

Albano, Michael
 Apfelstadt, Hilary - PhD
 Averill, Gage - BA, BA, PhD, PhD
 Bartel, Lee - BA, BMus, MEd, PhD
 Bowen, William - BA, BMus, MA, PhD
 Clark, Caryl - BMus, MA, PhD
 Dolloff, Lori Anne - MusB, PhD

Degree and Diploma Programs by Graduate Unit

Edwards, Darryl - BEd, BMus, MMus, DMA
Elliott, Robin - BMus, MA, PhD
Gould, Elizabeth - BM, MA, MusDoc
Haines, John - BSc, BA, MA, PhD
Hartenberger, J Russell - MB, MM, PhD
Hatzis, Christos - MusM, PhD
Hemmasi, Farzaneh - PhD
Horst, Sandra - BMus, MM
Johnston, Gregory - MusB, MA, PhD
Kippen, James - BA, PhD
Koga, Midori - BMus, AA, MMus, DMA
Kruspe, John - MusBac, ARCT
Kulesha, Gary - AA, ARCT, ARCT
Lee, Sherry - BMus, MMus, PhD
Macdonald, Lorna - BME, MMus
MacKay, Gillian - BMus, MMus, DMA (**Associate Dean, Graduate Education**)
McClelland, Ryan - BMus, MM, PhD
McFadden, Jeffrey - BMus, MusM, MusDoc
McLean, Don - PhD (**Dean and Graduate Chair**)
McLeod, Kenneth - AM, PhD
Packman, Jeff - BS, MA, PhD
Parker, James - BMus, MM, DMA, ARCT
Parker, Mary Ann - BA, MM, PhD, ARCT
Patrick, Dennis - MusBac, MMus
Pilzer, Joshua David - BA, MA, PhD
Promane, Terry
Rao, Doreen - BS, MM, PhD
Rapoport, Alexander - MMus, MusDoc
Reynolds, Jeffrey - BMus, BA, MA, MMus, PhD
Ries, Timothy - BM, MM
Rolston, Shauna - BA, MM
Sallmen, Mark - BM, MA, PhD
Sanger, Annette - BAMus, PhD
St. John, Scott - BMus
Walter, Cameron - BMus, MMus, EdD

Members Emeriti

Aide, William - BSc
Beach, David - BA, MusM, PhD
Hughes, Andrew - MA, DPhil
Laufer, Edward - MusBac, MusM, MFA, PhD

Associate Members

Beghin, Tom - MA
Clements-Cortes, Amy - PhD
Foote, Gordon - DMA
Gordon, Allan - MD
Hennigar, Marcus - BMus, BA
Hetherington, David - BA, ARCT
John, Bina - BM, BE, MM, MusD
Melville, Alison - BMus, MMus
Nediger, Charlotte - MMus
Orlov, Marietta - BM
Phillips Wright, Patricia - BFA, MFA, MM, MusD
Sanborn, Chase
Sicsic, Nancy - MMus
Watts, Camille - BMus

Near and Middle Eastern Civilizations

Faculty Affiliation

Arts and Science

Degree Programs

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, language, history, and religion; Mesopotamia and the Near East, including archaeology and Assyriology; Syro-Palestinian archaeology; Hebrew and Judaic studies, including Biblical and Rabbinic Hebrew, law, history, religion, and modern Hebrew literature; Aramaic (Ancient, Biblical, Targumic, and Talmudic Aramaic) and Syriac studies, including language, history, 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: <http://nmc.utoronto.ca/>

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Near and Middle Eastern Civilizations' additional admission requirements stated below.
- 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 proficiency requirements.

Program Requirements

- Depending on the amount of undergraduate preparation, students may be enrolled in either a two-year program or a one-year program option. Students can also complete the MA through a coursework option or a thesis option.
- The MA program may be taken on a part-time basis.
- Students choosing a concentration in Islamic Art and Material Culture are required to successfully complete at least 6.0 FCEs in art and Near and Middle Eastern Civilizations (a minimum of 2.0 FCEs in each). This is normally a two-year program.

One-Year Coursework Option

- 3.0 full-course equivalents (FCEs)

Two-Year Coursework Option

- 6.0 FCEs

One-Year Thesis Option

- a thesis (1.0 FCE) under the guidance of a supervisor on a topic approved by the supervisor; and
- 2.0 FCEs

Two-Year Thesis Option

- a thesis (1.0 FCE) under the guidance of a supervisor on a topic approved by the supervisor; and
- 5.0 FCEs.

Program Length

3 sessions full-time 1-year option (typical registration sequence: F/W/S);

6 sessions full-time 2-year program (typical registration sequence: F/W/S/F/W/S);

9 sessions part-time 1-year option;

18 sessions part-time 2-year program.

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. Applicants must also satisfy the Department of Near and Middle Eastern Civilizations' additional admission requirements stated below.
- Admission via one of two routes:
 1. 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.
 2. 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.
- Two letters of reference.
- Statement of academic intent.
- Writing sample of no more than 12 double-spaced pages including footnotes.
- Curriculum vitae (CV)/résumé up to three pages in length.
- 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

Degree and Diploma Programs by Graduate Unit

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). Students who have previously completed a two-year MA in the department may apply for a course reduction that will be granted at the discretion of the department. The reduction should normally be 1.0 FCE, but may be up to 3.0 FCEs in cases of students who also have an exceptional preparation in their field of study at the BA level.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Course List

Akkadian and Sumerian Languages and Literatures

NMC 1001Y	Introduction to Old Babylonian
NMC 1002Y	Selected Standard Babylonian Texts
NMC 1003Y	Akkadian Historical Texts
NMC 1004Y	Intermediate Sumerian
NMC 1005Y	The Assyrian Language
NMC 1006Y	Akkadian Literary Texts
NMC 1007Y	Akkadian Letters and Business Documents (Early Period)
NMC 1008Y	Akkadian Letters and Business Documents (Late Period)
NMC 1009Y	Introduction to Sumerian
NMC 1701Y	Selected Readings in Sumerian

Ancient Egyptian Language and Literature

NMC 1201Y	Introduction to Middle Egyptian
NMC 1202Y	Middle Egyptian Texts
NMC 1203Y	Late Egyptian Texts

Degree and Diploma Programs by Graduate Unit

NMC 1204Y	Cursive Script
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 2110H	Al-Jahiz and His Debate Partners
NMC 2111H	Medieval Arabic Rhetoric
NMC 2130H	Introduction to Classical Arabic Literary Prose
NMC 2131H	Introduction to Classical Arabic Poetry

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 I
NMC 1412H	Near Eastern Ceramics II
NMC 1414H	Egyptian Artifacts

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 1421H	Seminar in Egyptian Archaeology I
NMC 1422H	Seminar in Egyptian Archaeology II
NMC 1423H	The Archaeology of Mesopotamia I (8,000–2,000 BC)
NMC 1424H	The Archaeology of Mesopotamia II (2,000–330 BC)
NMC 1425H	Mesopotamian Material Culture I: Art and Artifacts
NMC 1426H	Mesopotamian Material Culture II: Architecture
NMC 1427H	Archaeology of State Societies
NMC 1428H	Problems in Mesopotamian Archaeology I: Chalcolithic and Early Bronze Age Chronologies
NMC 1429Y	Polarized-Light Microscopy in Archaeology
NMC 1500Y	Archaeology, from Alexander to Muhammad
NMC 2540Y	Islamic Archaeology

Gender-Related Topics in Law and Religion

NMC 1607H	Life Cycle and Personal Status Issues in Jewish Law—Biomedical Ethics and Reproductive Technology
NMC 1608H	Gender Issues in Jewish Law
NMC 1609H	Gender-Related Topics in Law and Religion

Hebrew Language and Literature

NMC 1305H	Early Hebrew Epigraphy
NMC 1306H	Scribes, Manuscripts, and Translations of the Hebrew Bible
NMC 1307H	History of Ancient Israel
NMC 1308H	Readings in Hebrew Bible
NMC 1309H	Wisdom in Ancient Israel
NMC 1310H	The First Part of Isaiah
NMC 1311Y	Post-Biblical Hebrew: Mishnah and Midrashim

NMC 1312H	Midrash Before the Rabbis: The Beginnings of Biblical Interpretation
NMC 1313H	Mishnah and Tosefta
NMC 1314H	Law in Ancient Judaism
NMC 1315H	Advanced Readings in the Dead Sea Scrolls
NMC 1316H	Modern Hebrew Poetry
NMC 1317H	Modern Hebrew Prose
NMC 1318H	Midreshei Halakha: Purity and Cultic Texts
NMC 1319H	Midreshei Halakha: Legal Texts and Narrative
NMC 1326Y	Topics in Midrashic Literature
NMC 1327H	Themes in Midrashic Literature
NMC 1328H	Intertextuality: Tannaitic and Amoraic Literature

History

NMC 1020H	Ancient Mesopotamia I: Sumerians and Akkadians
NMC 1021H	Ancient Mesopotamia II: Assyrians and Babylonians
NMC 1022H	The Babylonian City
NMC 1023H	The Neo-Assyrian Empire
NMC 1401H	Ancient Egyptian Cultural History I
NMC 1402H	Ancient Egyptian Cultural History II
NMC 2080H	Theory and Method in Middle Eastern Studies
NMC 2081H	Anthropology of the Middle East
NMC 2090Y	Islamic History to the Fall of Baghdad
NMC 2117H	Readings in Medieval Arabic Chronicles
NMC 2118H	Readings in Medieval Arabic Biographical Literature
NMC 2119H	Readings in Medieval Arabic Legal Documents
NMC 2170H	Topics in Modern Arab History I
NMC 2171H	Topics in Modern Arab History II
NMC 2173H	Intellectuals of the Modern Arab World
NMC 2180H	Iranian Modernity
NMC 2225Y	History of Iran
NMC 2226H	Medieval Persian Historiography and Diplomats

Degree and Diploma Programs by Graduate Unit

NMC 2230Y	Ancient Persia: From the Archaemenids to the Sasanians
NMC 2310Y	Ottoman History to 1800
NMC 2315Y	Topics in Ottoman History
NMC 2345Y	The Steppe Frontier in Eurasian and Islamic History

Islamic Art and Material Culture

NMC 2500H	Early Islamic Art and Architecture
NMC 2501H	Persianate Art and Architecture
NMC 2515Y	The Islamic City
NMC 2521H	The Taj Mahal and Its Origins
NMC 2525H	Painting in Late Medieval and Early Modern Iran and Beyond
NMC 2526H	Text and Image: The Formation of Arabic and Persian Manuscript Illustration
NMC 2527H	Islamic Decorative Arts
NMC 2530Y	Selected Problems in Islamic Art and Archaeology
NMC 2541Y	Contextualizing Medieval Middle Eastern and Islamic Pottery

Linguistics

NMC 1651H	Phoenician and Punic Epigraphy
NMC 1652H	Ugaritic
NMC 1653H	Issues in Ancient Hebrew Philology
NMC 1654H	Advanced Ancient Hebrew Grammar
NMC 1655H	Comparative Semitics

Persian Studies

NMC 2200Y	Introductory Persian
NMC 2201Y	Intermediate Persian
NMC 2202H	Modern Persian Poetry (prerequisite: NMC 2201Y)
NMC 2203H	Structural Development of Iranian Language (prerequisite: NMC 2201Y)
NMC 2220Y	Classical Persian Literature
NMC 2221H	Medieval Persian Ethical and Advice Literature
NMC 2222H	Persian Mystical Poetry
NMC 2223H	The <i>Masnavi</i> of Rumi
NMC 2224H	Persian Myths, Islamic Legends, and Mystical Allegories

Degree and Diploma Programs by Graduate Unit

NMC 2227H	Zoroastrian Cosmic History: From Genesis to Universal Judgment
NMC 2228H	Zoroastrian Apocalyptic Literature: To the Netherworld and Beyond
NMC 2229H	Introduction to Old and Middle Iranian
NMC 2235Y	Literature and Society in Modern Iran

Religion and Philosophy

NMC 1613Y	Ancient Near Eastern Religions (PhD students in Near and Middle Eastern Civilizations excluded)
NMC 1614Y	Ancient Egyptian Religion (PhD students in Near and Middle Eastern Civilizations excluded)
NMC 2045Y	Islamic Philosophical Texts
NMC 2050Y	Prayer in Islamic Thought
NMC 2052H	Islamic Religious Thought
NMC 2053Y	Images of the Prophet Muhammad
NMC 2055H	The Qur'an and Its Interpretation
NMC 2056H	Readings in Qur'an and Tafsir

Turkish and Ottoman Studies

NMC 2300Y	Introductory Turkish
NMC 2301Y	Intermediate Turkish
NMC 2330Y	Readings in Ottoman Historical Texts
NMC 2331Y	Ottoman Palaeography and Diplomats
NMC 2340Y	Studies in Ottoman and Turkish Literature
JNE 2320H	Modern Turkey

Other Courses

NMC 2000Y	Directed Reading
NMC 2001Y	Directed Reading and Research

Graduate Faculty

Full Members

Aksan, Virginia - BA, MA, MLS, PhD
 Beaulieu, Paul-Alain - LLB, BA, MA, PhD
 Daviau, Michele - MTh, PhD
 Fox, Harry - BSc, BA, MS, MA, PhD
 Goebbs, Katja - MA, DPhil
 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
 Leprohon, Ronald - BA, PhD
 Meacham, Tirzah - BA, MA, PhD (**Coordinator of Graduate Studies; Associate Chair**)
 Metso, Sarianna - MA, PhD
 Mittermaier, Amira - MA, PhD
 Newman, Judith - PhD
 Northrup, Linda - BA, MA, PhD
 Ostapchuk, Victor - BA, PhD
 Pouls Wegner, Mary Ann - BA, PhD
 Raffaelli, Enrico - PhD
 Reilly, James - BA, MA, PhD
 Ruehrdanz, Karin - ScD, PhD
 Saleh, Walid - BA, MA, PhD
 Subtelny, Maria - BA, PhD
 Tavakoli-Targhi, Mohamad - BA, MA, PhD
 Taylor, Glen - BA, MPH, MTh, PhD
 Virani, Shafique - PhD

Members Emeriti

Birnbaum, Eleazar - BA
 Garshowitz, Libby - BA, MA, PhD
 Golombek, Lisa - BA, MA, PhD
 Holladay, Jr., John - BS, BD, DTh
 Keall, Edward - BA, PhD
 Lutz, R.Theodore - MA
 Pietersma, Albert - BA, BD, PhD
 Sandler, Rivanne - BA, MA, PhD

Associate Members

Ali, Abdel-Khalig - BA, MA
 Alvi, Sajida - MA, PhD
 Baker, Heather - DPhil
 Brosius, Maria - BA, PhD
 Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
 Fadel, Mohammad - BA, JD, PhD
 Frayne, Douglas - BA, MA, PhD
 Hassanpour, Amir - BA, MA, PhD
 Hojatollah Taleghani, Azita - BA, MA, MA, PhD
 Mason, Robert - BA, PhD
 McLaughlin, John - BA, MA, MDiv, PhD
 Methodieva, Milena - PhD
 Miller, Jeanne - BA, MA, PhD
 Ulrich, Eugene - MA, PhD

Nursing Science

Faculty Affiliation

Nursing

Degree Programs

Nursing Science

MN

PhD

Combined Degree Programs

Health Administration, MHSc / MN

(Admissions have been suspended for this combined degree program.)

Diploma Programs

Master of Nursing (Nurse Practitioner Field) Concurrent
Diploma in Anaesthesia Care

(Admissions have been suspended for this diploma program.)

Post-Master of Nursing (Nurse Practitioner Field)
Diploma in Anaesthesia Care

(Admissions have been suspended for this diploma program.)

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. **Aging, Palliative and Supportive Care Across the Life Course**
 - Nursing Science, MN, PhD
2. **Bioethics**
 - Nursing Science, MN, PhD
3. **Global Health**
 - Nursing Science, PhD
4. **Resuscitation Sciences**
 - Nursing Science, MN, PhD
5. **Women's Health**
 - Nursing Science, MN, PhD

Overview

The **Master of Nursing** program prepares advanced nurses with specialized knowledge, skills, and expertise in a defined area of nursing. The program offers three fields:

- Clinical Nursing
- Health Systems Leadership and Administration
- Nurse Practitioner

The **Master of Nursing (Nurse Practitioner field) Concurrent Diploma in Anaesthesia Care** provides advanced education for Nurse Practitioner field students to develop their knowledge and skill related to the continuum of anaesthesia care. The diploma is completed in conjunction with the MN (NP field) program.

The **CDP in Health Administration, Master of Health Science / Master of Nursing** provides students who have a strong interest in both nursing and health administration with 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 nursing, health systems, or other related problems. Students study in one of three research fields:

- Effective Care and Health Outcomes
- Critical Approaches to Health and Health Care
- Nursing Health Systems

The **Post-Master of Nursing (Nurse Practitioner field) Diploma in Anaesthesia Care** is for students who are already nurse practitioners currently registered or eligible for registration with the College of Nurses of Ontario as a 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 practise as a nurse practitioner. Students study in the areas of adult, paediatric, and primary health care—global health.

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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Nursing Science's additional admission requirements stated below.

Degree and Diploma Programs by Graduate Unit

- 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 a minimum of two years of clinical experience.
- Applicants must hold current registration as a Registered Nurse or equivalent.
- 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.

Field: Clinical Nursing

- The MN program requires 5.0 full-course equivalents (FCEs) as follows:
 - four foundational courses (NUR 1017H, NUR 1022H, NUR 1028H, NUR 1034H);
 - a 1.0 FCE practicum-based course (NUR 1072Y), which should be taken alone in the final session and only after completion of all other coursework and program requirements;
 - one of the relational courses (NUR 1012H, NUR 1016H, NUR 1021H, NUR 1032H, or NUR 1043H); and
 - three courses chosen from a core-field concentration, two of which must be Faculty of Nursing courses; one core-field course may be taken outside the Faculty of Nursing.

Field: Health Systems Leadership and Administration

- The MN program requires 5.0 full-course equivalents (FCEs) including:
 - four foundational courses (NUR 1016H, NUR 1017H, NUR 1027Y, NUR 1034H);
 - two field of study courses (NUR 1160Y and NUR 1161H); and
 - a 1.0 FCE practicum-based course (NUR 1072Y), which should be taken alone in the final session and only after completion of all other coursework and program requirements
- This field of study is offered in a hybrid learning format including online and required on-campus, in-class learning. There are two required on-campus learning periods: one embedded in NUR 1160Y in Year 1 and the second embedded in NUR 1072Y in Year 2. Courses are prescribed and normally students progress through the program within a defined student cohort. Normally, successful completion of Year 1 courses is required for students to enter Year 2 of their program.
- **Year 1** course sequencing:

- Fall—NUR 1017H and NUR 1027Y
- Winter—NUR 1027Y and NUR 1160Y*
- Summer—NUR 1160Y*
- **Year 2** course sequencing:
 - Fall—NUR 1016H and NUR 1161H
 - Winter—NUR 1034H
 - Summer—NUR 1072Y*
- *NUR 1160Y and NUR 1072Y both include a required one-week, on-campus, in-class learning experience, a required practicum component, and required eLearning activities.

Field: Nurse Practitioner

- The MN program requires 5.5 full-course equivalents (FCEs), including:
 - four foundational courses (NUR 1017H, NUR 1022H, NUR 1028H, NUR 1034H);
 - NUR 1100Y;
 - a combination of courses based on their specialization in adult (NUR 1101H and NUR 1115Y), paediatric (NUR 1102H and NUR 1116Y), or primary health care—global health (NUR 1114H and NUR 1117Y); and
 - NUR 1110Y, which must be taken alone in the final session and only after completion of all other coursework and program requirements.
- This field of study is offered in both eLearning and campus-based formats.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Master of Nursing (Nurse Practitioner Field) Concurrent Diploma in Anaesthesia Care

Admissions have been suspended for this diploma program.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Nursing Science's additional admission requirements stated below.
- 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 1 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.

- Applicants must hold current registration as a Registered Nurse or equivalent.
- 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 the Anaesthesia Graduate Certificate (basic) with pass grade from the Michener Institute or equivalent (1.0 full-course equivalent [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 Anaesthesia Care*
 - NUR 1202H *Advanced Pain Management Across Clinical Settings*
 - NUR 1209Y *Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia I* (300 clinical hours)
 - NUR 1210Y *Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia II* (300 clinical hours)

Program Length

7 sessions full-time

Time Limit

6 years full-time

Combined Degree Program: Health Administration, Master of Health Science / Master of Nursing

For full details, please see the Health Administration, Master of Health Science / Master of Nursing entry in the Combined Degree Programs section of this calendar.

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Degree and Diploma Programs by Graduate Unit

- Applicants must also satisfy the Graduate Department of Nursing Science's additional admission requirements stated below. Applicants must have a master's degree or its equivalent in nursing or related field with at least a B+ standing from a recognized university.
- For further information about admissions, please contact the Graduate Department of Nursing Science.

Program Requirements

- The PhD in Nursing is offered as a full-time program.

Courses

Successful completion of **all required** courses by the end of Year 2 in the program.

- Students must successfully complete a minimum of 3.0 full course equivalents (FCEs) that include:
 - PhD Seminar (1.0 FCE)
 - Field of Study Course (0.5 FCE) that includes one of the following:
 - NUR 1085H (for students in the critical perspectives in health and healthcare field of study)
 - NUR 1086H (for students in the Nursing Health Systems field of study) or
 - NUR 1087H (for students in the Effective Care and Health Outcomes field of study)
 - at least one method course (0.5 FCE) relevant to the field of study and to the dissertation plans
 - at least one course (0.5 FCE) related to the substantive area of the field of study and thesis plans
 - the fifth required course (0.5 FCE) may be either a method or substantive area course as determined by the student and the supervisory committee.
- Students must attain a minimum average standing at the B+ level for required courses.
- Students are normally expected to complete all five required courses (3.0 FCEs) by the end of Year 2. If all required courses are not successfully completed (with a minimum average standing at the B+ level) by the end of Year 3, the Faculty of Nursing will normally make a recommendation to SGS for termination of registration.

Literature Review Paper

Successful completion of the literature review paper.

- The literature review paper topic as well as type and format of the literature review paper must be approved by the supervisor (with signed documentation by the student and supervisor) by April 30 of Year 1. This agreement should specify the problem statement, the format/type of literature review that is appropriate to the field of study, and to the scholarly traditions within which the student's research is situated.

Degree and Diploma Programs by Graduate Unit

- The literature review paper must be submitted by September 15 of Year 2. The submitted literature review paper will be formally reviewed and evaluated by the supervisor and at least one additional thesis committee member. Written and verbal feedback about the submitted literature review paper will be provided to the student at a supervisory committee meeting. For the literature review paper to be considered a pass, both faculty members' assessments of the literature review paper must be at the **successful completion** or **pass level**. If both examinations are considered pass, the student may receive either a **satisfactory** or **excellent** rating at their supervisory committee meeting. If one or both paper reviews are rated unsatisfactory or not pass, then the student receives an **unsatisfactory** rating at the supervisory committee meeting.
- If the student does not successfully complete the literature review paper first submitted, the student will have one additional opportunity to revise and rewrite the literature review paper, based on the feedback received at the supervisory committee. The student must resubmit the revised literature review paper by December 1 of Year 2. This revised literature review paper must be formally evaluated by the supervisor and one other thesis committee member (normally the same committee member who completed the assessment of the original literature review paper). The student will receive feedback about the revised literature review paper at a supervisory committee meeting. For the literature review to be considered a pass, both faculty members' assessments of the literature review must be at the **pass** level. If both reviews are considered pass, the student may receive either a **satisfactory** or **excellent** rating at their supervisory committee meeting. If one or both reviews are rated **failure/not pass**, then the student receives an **unsatisfactory** rating at the supervisory committee meeting.
- If the student does not successfully complete the literature review paper on the second attempt, the Faculty of Nursing will normally recommend to SGS that the student's registration in the PhD program be terminated.

Thesis Proposal

Successful defence of the thesis proposal, normally by the end of Year 2.

- Students are normally expected to defend their thesis proposal by the end of Year 2 of their program. Students must successfully defend their thesis proposal no later than the end of Year 3. The format of the proposal will be similar to that of a modified tri-council grant application. Assessment of the thesis proposal consists of both the written proposal and the oral defence of the proposal. Students who do not successfully defend the proposal after the first attempt may have

one additional opportunity to successfully present and defend the written proposal, and this must be accomplished before the end of Year 3 of the program.

- If the student does not successfully defend the thesis proposal by the end of Year 3 (including a second attempt, if required), the Faculty of Nursing will recommend to SGS that the student's registration in the PhD program be terminated.
- The student's dissertation will be defended in the Doctoral Final Oral Examination of the School of Graduate Studies.

Program Length

4 years full-time; 5 years transfer-from-master's

Time Limit

6 years full-time; 7 years transfer-from-master's

Diploma Programs Nurse Practitioner

Post-Master of Nursing (Nurse Practitioner Field) Diploma in Anaesthesia Care

Admissions have been suspended for this diploma program.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Nursing Science's additional admission requirements stated below.
- 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 Anaesthesia Graduate Certificate (basic) from the Michener Institute or equivalent (1.0 full-course equivalent [FCE]).
- Applicants must hold current registration as a Registered Nurse or equivalent.

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 Anaesthesia Care*.
 - NUR 1202H *Advanced Pain Management Across Clinical Settings*.
 - NUR 1209Y *Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia I* (300 clinical hours).
 - NUR 1210Y *Advanced Nursing Practice in Caring for Clients and Families Requiring Anaesthesia II* (300 clinical hours).

Program Length

3 sessions full-time

Time Limit

3 years full-time

Post-Master's Nurse Practitioner Diploma

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Nursing Science's additional admission requirements stated below.
- 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.
- 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.
- Applicants must hold current registration as a Registered Nurse or equivalent.

Program Requirements

- All students in the PMNP diploma program are required to complete a total of 3.5 full-course equivalents (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: Paediatric* or NUR 1114H *Advanced Health Assessment and Clinical Reasoning: Primary Health Care—Global Health*; each course consists of 100 clinical hours.
 - NUR 1115Y *Advanced Health Assessment and Therapeutic Management: Adult* or NUR 1116Y *Advanced Health Assessment and Therapeutic Management: Paediatric* or NUR

Degree and Diploma Programs by Graduate Unit

1117Y *Advanced Health Assessment and Therapeutic Management: Primary Health Care—Global Health*; each course consists of 500 clinical hours.

- NUR 1110Y *Nurse Practitioners: Roles and Issues*; course consists of 200 clinical hours.
- Three program courses require the learners to be engaged in clinical practice.
- This part-time program is completed in six sessions.

Program Length

6 sessions (2 years) part-time

Time Limit

6 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 1027Y	Integrated Approaches to Research Appraisal and Utilization
NUR 1028H	Introduction to Qualitative Research: Methodologies, Appraisal, and Knowledge Translation
NUR 1029H	Advanced Practice Nursing Care for Older Adults
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

Degree and Diploma Programs by Graduate Unit

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 1057H	Interventions to Enhance Health, Abilities, and Well-being
NUR 1058H	Aging, Gender, and Equity
NUR 1059H	Informatics: Theory and Application in Nursing
NUR 1060H	Leadership and Management of Nursing and Health Services
NUR 1061H	Patient Information Systems/Workload Measurement
NUR 1062H	Measuring Nursing Care Effectiveness: Economic and Financial Perspectives
NUR 1064H	Behaviour in Health Care Organizations
NUR 1066H	Improving Quality and Safety in Healthcare
NUR 1067H	Recovery-Oriented Mental Health Systems of Care
NUR 1068H	Youth and Mental Health Promotion
NUR 1072Y	Advanced Nursing Practice Scholarship
NUR 1073H	Research in Health Informatics

NUR 1074H	Facilitating Learning: Nursing Perspectives
NUR 1075H	Applied Statistics for Nursing Research I
NUR 1076H	Applied Statistics for Nursing Research II
NUR 1077H	Implementation Science in Healthcare (Prerequisite: NUR 1022H, NUR 1027Y, NUR 1028H, or equivalent.)
NUR 1080H	Theoretical Perspectives in Nursing Science
NUR 1081Y	PhD Student/Faculty Seminars
NUR 1082H	Knowledge Production in Nursing and Health
NUR 1083H	Comparative Politics of Health Policy in Globalizing World
NUR 1085H	Topics in Critical Perspectives in Health and Health Care
NUR 1086H	Selected Topics in Nursing/Health Services Research Methods
NUR 1087H	Foundations of Clinical Research
NUR 1090H	Measurement of Data Quality (Prerequisite: completion of an advanced graduate-level statistics course.)
NUR 1100Y	Pathophysiologic Concepts and Therapeutics
NUR 1101H	Advanced Health Assessment and Clinical Reasoning: Adult (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1102H	Advanced Health Assessment and Clinical Reasoning: Paediatric (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1110Y	Nurse Practitioners: Roles and Issues (Credit/No Credit) (Prerequisite: NUR 1115Y or NUR 1116Y or NUR 1117Y. Pre- or co-requisite: NUR 1034H.)
NUR 1114H	Advanced Health Assessment and Clinical Reasoning: Primary Health Care—Global Health (Credit/No Credit) (Prerequisite: NUR 1100Y. Pre- or co-requisite: NUR 1022H.)
NUR 1115Y	Advanced Health Assessment and Therapeutic Management: Adult (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1101H.)

Degree and Diploma Programs by Graduate Unit

NUR 1116Y	Advanced Health Assessment and Therapeutic Management: Paediatric (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1102H.)
NUR 1117Y	Advanced Health Assessment and Therapeutic Management: Primary Health Care—Global Health (Prerequisites: NUR 1017H, NUR 1022H, NUR 1100Y, NUR 1114H.)
NUR 1160Y	Healthcare Administration and Leadership for Nurses
NUR 1161H	Advanced Topics in Management and Leadership (Prerequisite: NUR 1160Y)
NUR 1200H	Reading Course
NUR 1201H	Principles of Anaesthesia Care
NUR 1202H	Pain Management Across Clinical Settings: Theory, Research, and Practice
NUR 1209Y	Advanced Nursing Practice in Anaesthesia I
NUR 1210Y	Advanced Nursing Practice in Anaesthesia II

Graduate Faculty

Full Members

Angus, Janet - BScN, MSN, PhD
 Bierman, Arlene - MS, MD
 Dennis, Cindy-Lee - PhD
 Dubrowski, Adam - BSc, MSc, PhD
 Gastaldo, Denise - BSN, MA, PhD
 Hillan, Edith - MPH, MSc, PhD
 Howell, Doris - BNSc, MSN, PhD
 McGillion, Michael - PhD
 McGillis, Linda - BHA, MS, PhD (*Interim Dean*)
 Metcalfe, Kelly - BNSc, PhD
 Muntaner, Carles - MHSc, MD, PhD
 Nelson, Sioban - PhD
 Peter, Elizabeth - BA, BSN, MSN, PhD
 Puts, Martine - PhD
 Rose, Rebecca Louise - BN, MN, PhD
 Stevens, Bonnie - BSc, MSN, DPhil
 Stremler, Robyn - PhD, RN
 Tourangeau, Ann - BScN, MN, PhD

Members Emeriti

Donner, Gail - PhD
 Doran, Diane - BA, PhD
 Gallop, Ruth - BSN, MSN, PhD
 Hodnett, Ellen - BSN, PhD
 McKeever, Patricia - BN, MSA, DPhil
 O'Brien-Pallas, Linda-Lee - BSN, MSN, DPhil

Pringle, Dorothy - BScN, MS, PhD
 Watt-Watson, Judith - BSN, MSN, DPhil

Associate Members

Ballantyne, Marilyn - MHSc
 Blastorah, Margaret - BScN, PhD (*Graduate Coordinator*)
 Chavez, Wilfrida - MHSc, PhD
 Colella, Tracey - MSc, PhD
 Crooks, Claire - AB, MPsy, PhD
 Crump, Michael - MD
 Dale, Craig - BSc
 Fitch, Margaret - BSN, MSN, MSN, PhD
 Hardie, Catherine - BSN, MSN, EdD
 Hubley, Pam - MSN
 Jeffs, Lianne - PhD
 Johnston, Linda - BSc, PhD
 LaPeyre, Jaime - BScN, MSN, PhD
 Lee, Jacques - MSc, MD
 Lee, Ruth - BSN, MSN, PhD
 Macdonald, Geraldine - BSN, MEd, EdD
 Maheu, Christine - BSN, MN, PhD
 Maser, Catherine - BSc, MN
 McAllister, Mary - BNSc, MHSc
 Mccay, Elizabeth - MSN, PhD
 Nistor, Oana-Irina - BN, MN
 Ratner Kirschbaum Nitkin, Debora - PhD
 Rourke, Sean - BSc, BA, PhD
 Sangster-Gormley, Esther - BNSc, MS, PhD
 Songok, Julia - MMed, MBCHB
 Stern, Susan - DSW
 Thomson, Nadia - BScN, MN
 Townsley, Carol - BSc, MSc, MD
 Villeneuve, Michael - BSN, MN
 Waddell, Janice - PhD
 Widger, Kimberley - PhD
 Wynn, Francine - BA, MA, PhD
 Yamada, Janet - BScN, BSc, MSc, PhD

Nutritional Sciences

Faculty Affiliation

Medicine

Degree Programs

Nutritional Sciences

MSc

PhD

Combined Degree Programs

MD / 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. **Human Development**
 - Nutritional Sciences, MSc, PhD
4. **Public Health Policy**
 - Nutritional Sciences, MSc, PhD
5. **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 Nutrition and Dietetics are advised to consult the calendar entry of the Dalla Lana School of Public Health for details.

Contact and Address

Web: <http://nutrisci.med.utoronto.ca/>

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. Applicants must also satisfy the Department of Nutritional Sciences' additional admission requirements stated below.
- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 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.
- Applicants must also satisfy the Department of Nutritional Sciences' additional admission requirements stated below.
- Applicants may enter the PhD program in one of two ways:
 1. 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.

2. 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, it 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 PhD qualifying examination in nutritional sciences is required by the end of Year 1. The examination is designed to ensure that students have developed a rigorous and comprehensive research proposal in a timely fashion. The oral examination is approximately two hours long, is graded as pass/fail, and takes place approximately nine months following initial registration. The examination will be conducted by the PhD Qualifying Examination Committee consisting of two faculty members appointed by the department and two faculty members chosen by the student. A student who fails the first attempt at the exam will be permitted one more attempt. Failure of the second attempt will result in a recommendation for program termination.
- Thesis.
- Student must pass the departmental examination before proceeding to the Doctoral Final Oral Examination.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Degree and Diploma Programs by Graduate Unit

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Course List

Not all courses are offered every year. Please consult the department regarding course offerings.

NFS 1201H	Public Health Nutrition
NFS 1204Y ⁰	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 Composition, Health Claims, and 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 ⁰	Doctoral Seminars in Nutritional Sciences (Credit/No Credit)
NFS 1484H	Advanced Nutrition

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

Degree and Diploma Programs by Graduate Unit

Graduate Faculty

Full Members

Allard, Johane - MD
Anderson, Gerald - BSc, MSc, PhD
Bazinet, Richard - BSc, PhD
Bhutta, Zulfiqar - MBBS, PhD
Boyd, Norman - MD
El-Sohemy, Ahmed - BSc, MSc, PhD
Greenwood, Carol - BSc, MSc, PhD (**Acting Chair and Graduate Chair**)
Hamilton, Jill - BSc, MSc, MD
Hanley, Anthony - BSc, MSc, PhD, CRC (**Graduate Coordinator, Admissions and Awards**)
Jenkins, David Ja - BA, MA, MD, MB, BS, PhD
Kreiger, Nancy - BA, MPH, PhD
L'Abbé, Mary - BSc, MSc, PhD (**Chair and Graduate Chair**)
Leiter, Lawrence Alan - BSc, MD
McCrindle, Brian - MD
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
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

Archer, Michael - MA, MSc, PhD, DSc
Bruce, Robert - BSc, LMCC, MSc, MD, PhD
Eyssen, Gail - BSc, MSc, MSc, PhD
Jeejeebhoy, Khursheed - MB, PhD
Kronld, Maria - BSc, PhD
Rao, A Venketeshwer - BSc, MSc, PhD
Thompson, Lilian - BSc, MSc, PhD

Associate Members

Abdelaal, Elsayed - BSc, MSc, PhD
Ball, Ronald - BSc, MSc, PhD
Bandsma, Robert - MD
Berall, Glenn - MD
Boucher, Beatrice - BSc, MHSc
Darling, Pauline - BSc, MSc, PhD
Di Buono, Marco - BSc, MSc, PhD
Fox, Ann - BAA, MHSc, PhD
Josse, Robert - BSc, MBBS
Karmali, Mohamed - MBCHB
Keith, Mary - BASc, PhD
Kotsopoulos, Joanne - BSc, MSc, PhD
Levitt, Anthony - MBBS, DGO, MB
Ma, David - BSc, PhD
Maguire, Jonathon - BSc, MSc, MSc, MD
Pausova, Zdenka - MD
Power, Krista - BSc, MSc, PhD

Sievenpiper, John - BASc, MFS, MD, PhD
Tomlinson, Christopher - BSc, MBCHB, PhD
Yeung, David - BA, MA, PhD

Occupational Science and Occupational Therapy

Faculty Affiliation

Medicine

Degree Programs

Occupational Therapy

MScOT

Collaborative Programs

The following collaborative program is available to students in the participating degree program as listed below:

Women's Health

- Occupational Therapy, MScOT

Overview

The **Master of Science in Occupational Therapy** (MScOT) 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

Web: www.ot.utoronto.ca

Email: ot.reception@utoronto.ca

Telephone: (416) 946-8571

Fax: (416) 946-8570

Department of Occupational Science and Occupational Therapy

University of Toronto

Room 160, 500 University Avenue

Toronto, Ontario M5G 1V7

Canada

Degree Programs Occupational Therapy

Master of Science in Occupational Therapy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Occupational Science and Occupational Therapy's additional admission requirements stated below.
- 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 10.0 full-course equivalents (FCEs) completed at the undergraduate level by the application deadline.
- Apply online using the Ontario Rehabilitation Sciences Programs Application Service (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 proficiency by March 1 of the year of application. See General Regulations, sections 4.1.10 English-Language Proficiency and 5.0 Admission 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 (TWE)
 - 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

- Visit the Occupational Therapy and ORPAS websites for additional information regarding application document submissions (e.g., confidential assessment forms, resumé, 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Course List

OCT 1100H ⁰	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 1123H	Framing 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 ⁰	Building Practice Through Mentorship
OCT 1220Y ⁰	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

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

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
 Kirsh, Bonnie - BSc(OT), MEd, PhD
 Mihailidis, Alex - BASc, MASc, PhD
 Mosnyk, Debra - BSc(OT), MEd, 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
 Campbell, Kent - BSc, PhD
 Cockburn, Lynn - BSc(OT), BCom, MEd, MPH, PhD
 Colquhoun, Heather - PhD
 Davis, Jane - BSc, BSc(OT), MSc
 Duncan, Andrea - BSc(OT), BSc(OT), MBA
 Farrow, Susan - BSc(OT), BA
 Fourt, Anne - BSc(OT), MEd
 Hebert, Debbie - BSc(OT), MSc, PhD
 Keightley, Michelle - BSc, MA, PhD
 Langlois, Sylvia - BSc, MSc
 Mckee, Patricia - DipOT, BSc(OT), MSc

Degree and Diploma Programs by Graduate Unit

Nalder, Emily - PhD
Reed, Nicholas - BA, MSc, PhD
Reel, Kevin - BSc(OT)
Rigby, Patty - DipOT , MHSc
Stergiou-Kita, Mary - BSc(OT), MSc, PhD
Stier, Jill - MA, BMedSc
Trentham, Barry - BSc(OT), MES, PhD
Wang, Rosalie - BSc, BSc(OT), PhD

Pharmaceutical Sciences

Faculty Affiliation

Pharmacy

Degree Programs

Pharmaceutical Sciences

MSc

PhD

Combined Degree Programs

Doctor of Pharmacy / Management, MBA

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. **Bioethics**
 - Pharmaceutical Sciences, MSc, PhD
4. **Biomedical Engineering**
 - Pharmaceutical Sciences, MSc, PhD
5. **Biomedical Toxicology**
 - Pharmaceutical Sciences, MSc, PhD
6. **Cardiovascular Sciences**
 - Pharmaceutical Sciences, MSc, PhD
7. **Global Health**
 - Pharmaceutical Sciences, PhD
8. **Health Care, Technology, and Place**
 - Pharmaceutical Sciences, PhD
9. **Health Services and Policy Research**
 - Pharmaceutical Sciences, MSc, PhD
10. **Neuroscience**
 - Pharmaceutical Sciences, MSc, PhD
11. **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: www.pharmacy.utoronto.ca/gradprograms

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Pharmaceutical Sciences' additional admission requirements stated below.
- 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 Test of Written English (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 the graduate departmental and student group seminars for two years (or less if all other program requirements are completed).
- 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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)**;

14 sessions part-time

Time Limit

3 years full-time;

6 years part-time

***Applicants may apply to the Fall or Winter session only.*

Combined Degree Program: Doctor of Pharmacy / Management, Master of Business Administration

For full details, please see the Pharmacy, Doctor of / Master of Business Administration entry in the Combined Degree Programs section of this calendar.

Doctor of Philosophy

Minimum Admission Requirements

Full-Time PhD

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Pharmaceutical Sciences' additional admission requirements stated below.
- 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 Test of Written English (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.

Degree and Diploma Programs by Graduate Unit

- 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.
- Successful completion of a PhD qualifying examination within the first 24 months of the program. Students are permitted a second attempt, if necessary, to satisfactorily complete the examination. The format of the examination will include the student giving a 20-minute presentation based on the proposal distributed to the Qualifying Examination Committee, followed by a question period. The student is expected to demonstrate appropriate understanding of the scientific basis of the research, the methodological approaches, and the technical details. Failure to successfully complete the PhD qualifying examination will result in a recommendation for termination of registration in the program.
- Research presentation(s) to all faculty and graduate students at Graduate Research in Progress (GRIP). Students entering the program with an MSc degree must complete one oral presentation. Direct-entry PhD students must complete two poster presentations, one of which may be a peer-reviewed conference.
- Annual attendance at GRIP.
- Regular attendance, with a minimum of eight Pharmaceutical Sciences departmental seminars in each academic year for four years (or less if all other program requirements are completed).
- All PhD students are required to give an oral research presentation of approximately 20 to 30 minutes every year after the first 12 months of registration in the program, unless the student presents at GRIP.
- An open final oral presentation (50 minutes long) immediately prior to a closed thesis defence.
- A thesis in conformity with 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 those listed above for the full-time PhD program.
- Students whose current professional background is such that they would be deemed to have fulfilled a significant portion of the requirements contained in the department seminar series may be eligible for a reduction of four seminars upon consultation with the admissions committee.
- Successful completion of a PhD qualifying examination within the first 32 months of the program. Students are permitted a second attempt, if necessary, to satisfactorily complete the examination. The format of the examination will include the student giving a 20-minute presentation based on the proposal distributed to the Qualifying Examination Committee, followed by a question period. The student is expected to demonstrate appropriate understanding of the scientific basis of the research, the methodological approaches, and the technical details. Failure to successfully complete the PhD qualifying examination will result in a recommendation for termination of registration in the program.
- 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.

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 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 1128H	Introduction to Models and Methods of Research in Clinical, Social, and Administrative Pharmacy
PHM 1130H	Biomolecular Interactions and Thermodynamics I
PHM 1131H	Biomolecular Interactions and Thermodynamics II
PHM 1132H	Applied Health Econometrics
PHM 1133H	Special Topics in Pharmaceutical Sciences Reading Course
PHM 1135H	Nanomedicines in Oncology
BTC 1830H	Medical and Scientific Marketing
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 1017H ⁺	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H ⁺	Molecular and Biochemical Basis of Toxicology
JRH 1000H	Introduction to Pharmacoepidemiology
PAS 3700H	Multidisciplinary Aspects of Addictions
PCL 1004Y	Clinical Pharmacology
PPG 2010H	Panel Data Methods for Public Policy Analysis

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

Graduate Faculty

Full Members

Allen, Christine - BSc, PhD, PhD, GlaxoSmithKline Chair in Pharmaceutics and Drug Delivery (**Associate Dean, Graduate Education**)
 Angers, Stephane - BSc, PhD
 Austin, Zubin - BA, BScPhm, MBA, MSt, MEd, PhD
 Bendayan, Reina - DP
 Boon, Heather - PhD
 Cadarette, Suzanne - BSc, MSc, PhD
 Chalikian, Tigran - PhD
 Cummins, Carolyn - BSc, PhD
 Gariepy, Jean - BSc, PhD
 Grant, Denis - BSc, PhD
 Grootendorst, Paul - BA, MEc, PhD
 Hampson, David - PhD
 Heerklotz, Heiko - PhD
 Henderson, Jeffrey - PhD
 Hoch, Jeffrey - BA, MA, PhD
 Kelley, Shana - BA, PhD
 Kohler, Jillian - BA, MA, PhD
 Koren, Gideon - MD
 Kotra, Lakshmi - BSc, BPhm, PhD, PhD
 Krahn, Murray - BA, MSc, MD
 Lee, Ping - BScE, PhD
 Macgregor, Robert - BS, PhD
 MacKeigan, Linda - BScPhm, PhD
 Muzzin, Linda - BA, MA, MPsy, PhD
 Pang, K Sandy - BSc, PhD
 Pennefather, Peter - BSc, PhD
 Piquette-Miller, Micheline - BScPhm, PhD
 Reilly, Raymond - BSc, BSc, MSc, PhD
 Shoichet, Brian - BS, PhD
 Sproule, Beth - BScPhm, DP
 Taddio, Anna - BScPhm, MScPhm, PhD
 Uetrecht, Jack - BSc, MSc, MD, PhD, CRC
 Walker, Scott - BScPhm, MScPhm
 Wells, James - BSc, MSc, PhD
 Wells, Peter - BScPhm, DP
 Wu, Xiao Yu - PhD
 Zheng, Gang - MSc, PhD

Members Emeriti

Bowen, Barry - BScPhm, MScPhm
 Einerson, Thomas - BScPhm, MSc, MPharm, MEd, PhD
 Marshman, Joan - BScPhm, MSc, PhD
 Nairn, John - BScPhm, PhD
 O'Brien, Peter John - BSc, MSc, PhD

Associate Members

Adams, Tracey L - BA, MA, PhD
 Burry, Lisa - BScPhm, DP
 Cheng, Hai-Ling - BSc, MS, PhD
 De Angelis, Carlo - DP
 De Lannoy, Ines A.M. - BScPhm, PhD
 Dupuis, Lee - BSc, BScPhm
 Facey, Marcia - PhD

Degree and Diploma Programs by Graduate Unit

Franck, Linda - BSN, MS, PhD
Gladstone, Richard - BSc, MD
Goldenberg, Maya - BA, MA, PhD
Gomes, Tara - BSc, MHSc
Hardy, Brian - BSc, BSP, DP
Husain, Shahid - MS, MBBS
Kwan, Debora - BScPhm, MSc
MacLeod, Anna - BA, BEd, MEd, PhD
Mamdani, Muhammad - DP
Papadimitropoulos, Emmanuel - BSc, BSP, MScPhm, PhD
Pillai Riddell, Rebecca - BA, MA, PhD
Poole, Jennifer - BA, MSW, PhD
Routy, Jean-Pierre - MD
Simor, Andrew - MD
So, Derek Y.F. - BSc, MSc, DrMed
Spino, Michael - BScPhm, DP
Walker, Sandra - BSc, BScPhm, DP
Weaver, Donald F - BSc, MD, PhD

Pharmacology and Toxicology

Faculty Affiliation

Medicine

Degree Programs

Pharmacology

MSc

Field:

Applied Clinical Pharmacology

PhD

Combined Degree Programs

MD / 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. **Human Development**
 - Pharmacology, PhD
5. **Neuroscience**
 - Pharmacology, MSc, PhD
6. **Resuscitation Sciences**
 - Pharmacology, MSc, PhD
7. **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

Degree and Diploma Programs by Graduate Unit

- 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Pharmacology and Toxicology's additional admission requirements stated below.
- Appropriate bachelor's degree 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 applied sciences sufficient to form a foundation for their work in pharmacology.
- 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

Degree and Diploma Programs by Graduate Unit

choose to be evaluated during their MSc oral defence.

Field: Applied Clinical Pharmacology

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Pharmacology and Toxicology's additional admission requirements stated below.
- An appropriate bachelor's degree 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 applied sciences sufficient to form a foundation for their work in pharmacology.

Advanced-Standing Option

- At the discretion of the program director, applicants may be considered for advanced standing with either:
 - a bachelor's degree in pharmacology or biomedical toxicology **or**
 - MD degree (undergraduate medical education) with coursework in pharmacology.

Program Requirements

Completion of 8.0 full-course equivalents (FCEs) as follows:

- **Year 1 (3.5 FCEs total):**
 - PCL1001Y *Systems Pharmacology*
 - PCL1004Y *Clinical Pharmacology*
 - PCL1402H *Pharmacology and Toxicology in Drug Development*
 - PCL1491H *Clinical Pharmacology: Principles in Practice*
 - PCL1100H *Applied Skills in Clinical Pharmacology*
- **Year 2 (3.5 FCEs total):**
 - Required courses (1.5 FCEs):
 - PCL1002Y *Graduate Pharmacology*
 - PCL1101H *Technology, Techniques, and Translation in Pharmacology and Toxicology*

Plus

- Elective courses (2.0 FCEs) from the following list:
 - PCL 1012H *Cognitive Neuropharmacology*
 - PCL 1300H *Selected Topics in Clinical Studies*
 - PCL 2100H *Practicum in Clinical Pharmacology*
 - PCL 2101Y *Practicum in Clinical Pharmacology*
 - BTC 1830H *Medical and Scientific Challenges in Marketing New Therapeutics*
 - JFK 1120H *Selected Topics in Drug Development I*

- JNP 1014Y *Interdisciplinary Toxicology*
- JPM 1005Y *Behavioural Pharmacology*
- LMP 1407H *Introductory Biostatistics and Clinical Investigation or CHL 5201H Biostatistics for Epidemiologists*

Clinical practicums (either PCL 2100H or PCL 2101Y; CR/NCR), if chosen from electives, must be completed by Year 2.

- **Major Research Project (1.0 FCE).**

Students will enrol in PCL 2200Y⁰, normally in the Summer of Year 1 or no later than the Fall of Year 2.

Advanced-Standing Option

Completion of at least 4.0 FCEs including:

- PCL1002Y *Graduate Pharmacology*
- PCL1004Y *Clinical Pharmacology*
- PCL1100H *Applied Skills in Clinical Pharmacology*
- At least one half-course elective (0.5 FCE) chosen from the elective list above, and upon recommendation of the program director.
- PCL 2200Y⁰ *Major Research Project*, taken in the Fall of Year 1.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

3 sessions advanced-standing (typical registration sequence: F/W/S);

9 sessions part-time

Time Limit

3 years full-time;

6 years part-time

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

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Pharmacology and Toxicology's additional admission requirements stated below.
- 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 applied 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 admitted without prior screening (i.e., 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.
- 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 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 four breadth modules from among available options. 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

Degree and Diploma Programs by Graduate Unit

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.

Program Length

4 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.

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

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.

PCL 1001Y	Systems Pharmacology
PCL 1002Y	Graduate Pharmacology
PCL 1003Y ⁰	Seminars in Pharmacology (Credit/No Credit)
PCL 1004Y	Clinical Pharmacology
PCL 1012H	Cognitive Neuropharmacology
PCL 1101H	Technology, Techniques, and Translation in Pharmacology and Toxicology
PCL 1110H	Applied Skills in Clinical Pharmacology
PCL 1300H	Selected Topics in Clinical Pharmacology and Toxicology (Credit/No Credit) (prerequisite: PCL 1100H)
PCL 1402H	Pharmacology and Toxicology in Drug Development
PCL 1491Y	Clinical Pharmacology: Principles in Practice (co-requisite: PCL 1004Y or prior pharmacokinetics course)
PCL 2200Y ⁰	Major Research Project (prerequisite or co-requisite: PCL 1100H)
PCL 2201Y ⁰	Research Project Extended Study (Credit/No Credit) (prerequisite: PCL 2200Y)

Degree and Diploma Programs by Graduate Unit

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 ⁰	Molecular and Biochemical Basis of Toxicology
JNP 1018H ⁰	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

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

Brands, Bruna - PhD
Dorian, Paul - MSc, MDCH
George, Susan - MD
Goldstein, Benjamin - MD
Grant, Denis - BSc, PhD
Grupp, Larry - DSc
Hampson, David - PhD
Ito, Shinya - MD, BM
Kish, Stephen John - BSc, MSc, PhD
Koren, Gideon - MD
Lancot, Krista - MSc, PhD
Laposa, Rebecca - PhD
Le Foll, Bernard - MSc, DrMed, PhD
Matthews, Jason - PhD
McPherson, J. Peter - MSc, PhD (**Coordinator of Graduate Studies**)
Meyer, Jeffrey - MD
Mitchell, Jane - BSc, PhD
Mizrahi, Romina - MD, PhD
Mizrahi, Romina - MD, 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, Micheline - BScPhm, PhD
Pollock, Bruce - BSc, MD, PhD
Pollock, Bruce - BSc, MD, PhD
Ramsey, Amy - PhD
Riddick, David - BSc, PhD
Ross, Ruth Alexandra - PhD (**Chair**)
Roy, Peter John - BSc, PhD
Salahpour, Ali - PhD
Schimmer, Bernard - BS, PhD
Semple, John Wesley - PhD
Sibille, Etienne - BSc, PhD
Snead III, Carter - BS, MD, MD
Tyndale, Rachel - PhD
Utrecht, Jack - BSc, MSc, MD, PhD, CRC
Verma, Subodh - MSc, MD, PhD
Verma, Subodh - MSc, MD, PhD
Warsh, Jerry - MD
Wells, James - BSc, MSc, PhD
Wells, Peter - BScPhm, DP
Wong, Albert - MD, PhD
Young, Lionel Trevor - MSc, MD, PhD
Zack, Martin - BSc, MASc, PhD

Members Emeriti

Burnham, Willets - PhD
Endrenyi, Laszlo - PhD
Heersche, Johannes - BSc, PhD
Inaba, Tadanobu - BEng, MSc, PhD
Kadar, Dezso - BSc, MSc, PhD
Kalant, Harold - BSc, MD, PhD
Milgram, Norton - BSc, MSc, 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

Arnot, Michelle - PhD
Boutros, Paul - PhD
Boutros, Paul - PhD
Hamadanizadeh, Soheila Anita - PhD
Nulman, Irena - MD
Park, Hee-Won - DVSM, MSc, DChem
Salmena, Leonardo - PhD, PhD
Sun, Hong-Shuo - MSc, DrMed, DPhil
Woodland, Cindy - PhD
Zawertailo, Laurie Anne - PhD

Philosophy

Faculty Affiliation

Arts and Science

Degree Programs

Philosophy

MA

PhD

Combined Degree Programs

Law, Juris Doctor / Philosophy, 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. **Jewish Studies**
 - Philosophy, MA, PhD
5. **Sexual Diversity Studies**
 - Philosophy, MA, PhD
6. **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 Degree Program in Law, 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 for complete details on 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

Degree and Diploma Programs by Graduate Unit

Jackman Humanities Building (JHB)
Room 410, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Degree Programs Philosophy

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Philosophy's additional admission requirements stated below.
- 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 upload the following supporting documents with their applications:
 - One electronic or scanned transcript from each post-secondary institution attended.
 - 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); not exceeding 20 pages, double spaced, with 12-point one-inch margins. The writing sample 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 Test of Written English (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 proficiency are acceptable.
- The submission deadline for all complete applications and supporting documents, including letters of reference, is January 10.

Degree and Diploma Programs by Graduate Unit

Program Requirements

- The program requires 3.5 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.) In addition, all MA students will be required to take the teaching workshop PHL 2152H *Philosophy and Teaching*, which counts for 0.5 FCE.
- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

5 years part-time

Time Limit

3 years full-time;

6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants approved by the department are admitted under the General Regulations of the School of Graduate Studies via one of two routes:
 1. 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.
 2. 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 electronic or scanned transcript from each post-secondary institution attended.

- 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, double spaced. 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 Examination (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 Director of Graduate Studies.
- 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 Test of Written English (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 proficiency 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 Director of Graduate Studies.
- Students who wish to take for credit 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 as those for the MA program.
- The submission deadline for all complete applications and supporting documents, including letters of reference, is January 10.

Program Requirements

- 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. The five-year option provides five years of funding and requires two years of coursework, while the four-year option provides four years of funding and requires one year of coursework. 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 towards 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 three areas 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 to 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 and 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 fulfil 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.

Degree and Diploma Programs by Graduate Unit

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Combined Degree Program: Law, Juris Doctor / Philosophy, Doctor of Philosophy

For full details, please see the Law, Juris Doctor / Philosophy, Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

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
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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
PHL 2011H	Seminar in Hellenistic Philosophy

Eastern Philosophy

PHL 2015H	Early Greek Philosophy
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
JCY 5116H	Freud: Case Histories

Problems of Philosophy

Metaphysics and Epistemology

PHL 2100H	Metaphysics
PHL 2101H	Seminar in Metaphysics
PHL 2105H	Topics in Metaphysics

Degree and Diploma Programs by Graduate Unit

PHL 2110H	Epistemology
PHL 2111H	Seminar in Epistemology
PHL 2115H	Topics in Epistemology
PHL 2117H	Formal 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 2175H	Philosophy of Perception
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 2137H	Philosophy of Action
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 2146Y	Topics in Bioethics
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	Topics in 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
PHL 2199H	Seminar in the Philosophy of Science

Miscellaneous

PHL 2222H	MA Seminar
PHL 3000H	Professional Development Workshop
PHL 3101H	Intensive Special Course
PHL 4900H	Research Seminar

Graduate Faculty

Full Members

Ainslie, Donald - BSc, MA, PhD
 Allen, Derek - BA, BPhil, MA, DPhil
 Allen, James - BA, PhD
 Barney, Rachel - BA, PhD
 Berkovitz, Joseph - BSc, MA, PhD
 Black, Deborah - BA, MA, PhD
 Brown, James - BA, MA, PhD, FRSC
 Clark, Philip - BA, MA, PhD
 Comay, Rebecca - BA, MA, PhD
 Cunningham, Frank - BA, MA, PhD
 Dickie, Imogen - BA, BPhil, DPhil
 Dyzenhaus, David - BA, LLB, DPhil
 Gerson, Lloyd - BA, MA, PhD, FRSC
 Gibbs, Robert - BA, MA, PhD
 Gooch, Paul William - BA, MA, PhD
 Heath, Joseph - BA, MA, PhD, FRSC
 Hellie, Benjamin - BA, PhD
 Hurka, Thomas - BA, BPhil, DPhil, FRSC
 Hutchinson, Douglas - BA, BPhil, DPhil
 Inwood, Brad - BA, MA, PhD, FRSC
 Katz, Bernard - BA, MA, PhD
 King, Peter - BA, PhD
 Kingwell, Mark - BA, MA, MPH, DFA, PhD
 Kremer, Philip - BS, PhD
 Lange, Lynda - BA, MA, PhD
 Matthen, Mohan - PhD, FRSC
 Misak, Cheryl - BA, MA, DPhil, FRSC

Degree and Diploma Programs by Graduate Unit

Moreau, Sophia - BA, BPhil, PhD, JD
Morgan, Kathryn - BA, MA, MEd, PhD
Morrison, Margaret - BA, MA, PhD
Mullin, Amy - BA, PhD
Nagel, Jennifer - BA, MA, PhD (*Director of Graduate Studies*)
Novak, David - AB, PhD
Pickavé, Martin - MA, PhD (*Graduate Chair*)
Raffman, Diana - BA, PhD, FRSC
Rattan, Gurpreet - BSc, AM, MPH, PhD
Ripstein, Arthur S - BA, MA, LL.M., PhD
Rozemond, Marleen - BA, PhD
Seager, William Edward - BA, MA, PhD
Sedivy, Sonia - BA, PhD
Shen, Vincent Tsing-song - MA, PhD
Smith, Brian Cantwell - BS, MS, PhD
Tenenbaum, Sergio - MA, PhD
Thompson, Paul - BA, MA, PhD
Walsh, Denis - BA, BSc, MPH, PhD, PhD
Weisberg, Jonathan - BMath, BPhil, PhD
Whiting, Jennifer - BA, MA, PhD
Wilson, Jessica Marie - BA, PhD
Yi, Byeong-Uk - PhD

Members Emeriti

Boyle, Joseph - BA, PhD
Canfield, John - BA, MA, PhD
De Sousa, Ronald - BA, PhD, FRSC
Goldstick, Daniel - BA, BPhil, DPhil
Hacking, Ian - BA, BA, MA, PhD
Stefanovic, Ingrid - BA, MA, PhD
Urquhart, Alasdair - MA, MA, PhD

Associate Members

Franklin-Hall, Andrew - BA, MPH, MA, PhD
Huber, Franz - MA, PhD
Hubner, Karolina - BA, MA, PhD
Hussain, Waheed - AB, PhD
Nefsky, A. Julia - BA, PhD
Sepielli, Andrew - AB, JD, PhD
Stang, Nicholas - AB, PhD
Zuidervaat, Lambert - BA, MPH, PhD

Physical and Environmental Sciences

Faculty Affiliation

University of Toronto Scarborough (UTSC)

Degree Programs

Environmental Science

MEnvSc	<i>Fields:</i> Biophysical Interactions in Terrestrial and Aquatic Systems Climate Change Impact Assessment Conservation and Biodiversity
PhD	<i>Concentrations:</i> Climate Change and the Environment Contaminant Flux Environmental Science in Transitional Economies Great Lakes Ecosystems Remediation and Restoration of Degraded Environmental Systems Urban Geoscience

Collaborative Programs

The following collaborative program is available to students in the participating degree program as listed below:

Environment and Health

- Environmental Science, 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**.

Contact and Address

Web: www.utsc.utoronto.ca/physsci/graduate-programs-dpes

Email: MEnvSc: gisela.bento@utoronto.ca

PhD: epick@utsc.utoronto.ca

Telephone: MEnvSc: (416) 287-7205

PhD: (416) 208-2910

Fax: (416) 287-7204

Graduate Department of Physical and Environmental Sciences

University of Toronto Scarborough

1265 Military Trail

Toronto, Ontario M1C 1A4 Canada

Degree Programs Environmental Science

Master of Environmental Science

- The Graduate Department of Physical and Environmental Sciences offers a 12-month coursework Master of Environmental Science (MEnvSc) degree program. The program is committed to the development of well-trained practitioners in environmental science in all fields, primarily to meet the needs of industry, governments, and environmental policy/education organizations.
- The MEnvSc program offers three enrolment options—research, internship, and part-time studies—in each of the three fields. The three designated fields of study are:
 1. Biophysical Interactions in Terrestrial and Aquatic Systems: A major focus is understanding the flux of contaminants and excess nutrients through surface and sub-surface environments and the methods/solutions needed to remediate contaminated or damaged environmental systems.
 2. Climate Change Impact Assessment: Students are trained in the science, data analysis, and rigorous assessment process for the impacts of climate change on a wide range of natural and human systems.
 3. Conservation and Biodiversity: A major focus is the application of ecological theory and principles to real-world conservation challenges.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Physical and Environmental Sciences' additional admission requirements stated below.
- Applicants educated outside Canada should pay particular attention to the English-language competency requirements.
- A minimum mid-B grade average in the last two years of the undergraduate program.
- Applicants must submit a written statement explaining their objectives for entering the program and the suitability of their background. Appropriate post-graduate work experiences will be considered as part of the admission application.

Additional admission requirements by field:

Field: Biophysical Interactions in Terrestrial and Aquatic Systems

- A science or engineering undergraduate degree including at least two half courses or one full course in each of chemistry, physics, calculus, and biology.

Degree and Diploma Programs by Graduate Unit

Field: Climate Change Impact Assessment

- A science or engineering undergraduate degree including at least two half courses or one full course in each of chemistry, physics, calculus, and biology.

Field: Conservation and Biodiversity

- An undergraduate degree in biology or a closely related field.

Program Requirements

- In all fields, coursework consists of 5.5 full-course equivalents (FCEs).
- Students will choose either a research or internship option.
- **Research option:** Each student is required to have a research supervisor. For full-time students, the intensive research necessary for the research paper will normally be completed in the final Summer session. The final research paper needs to be written in scientific journal format and will be presented and defended orally in front of an examination committee. The committee will include the supervisor and two other members of the graduate faculty.
- **Internship option:** For full-time students, the placement in private industry, government, or a non-governmental organization (NGO) will normally be completed in the final Summer session. It will consist of a minimum of four consecutive months. Successful completion of the internship is based on an assessment completed by the student's work supervisor and on an assessment of a written placement project report.
- A final grade below 70% in any course equates to an FZ, which is an insufficient grade. A MEnvSc student who receives more than one final grade of FZ (i.e., two or more) will be recommended for termination of registration from the MEnvSc program.

Field: Biophysical Interactions in Terrestrial and Aquatic Systems

- 5.5 FCEs total as follows:
 - EES 1100H *Advanced Seminar in Environmental Science* (0.5 FCE)
 - Completion of either 3.0 FCEs in elective courses (see course list) and 2.0 FCEs for the internship (EES 1116Y), **or** 3.5 FCEs in elective courses (see course list) and 1.5 FCEs for the research paper (EES 1101Y). Students planning to complete the research paper option must complete the prerequisite (EES 1114H).

Field: Climate Change Impact Assessment

- 5.5 FCEs total as follows:
 - EES 1100H *Advanced Seminar in Environmental Science* (0.5 FCE)
 - EES 1117H *Climate Change Impact Assessment* (0.5 FCE)
 - EES 1131H *Applied Climatology* (0.5 FCE)

- EES 1132H *Climate Data Analysis* (0.5 FCE)
- EES 1133H *Climate Change Science and Modelling* (0.5 FCE)
- EES 1134H *Climate Change Policy* (0.5 FCE)
- Completion of either 0.5 FCE in elective courses (see course list) and 2.0 FCEs for the internship (EES 1116Y), **or** 1.0 FCE in elective courses (see course list) and 1.5 FCEs for the research paper (EES 1101Y). Students planning to complete the research paper option must complete the prerequisite (EES 1114H).

Field: Conservation and Biodiversity

- 5.5 FCEs total as follows:
 - EES 1100H *Advanced Seminar in Environmental Science* (0.5 FCE)
 - EES 3000H *Applied Conservation Biology* (0.5 FCE)
 - EES 3001H *Professional Scientific Literacy* (0.5 FCE)
 - EES 3002H *Conservation Policy* (0.5 FCE)
 - EES 3003H *Topics in Applied Biodiversity* (0.5 FCE)
 - Completion of either 1.0 FCE in elective courses (see course list) and 2.0 FCEs for the internship (EES 1116Y), **or** 1.5 FCEs in elective courses (see course list) and 1.5 FCEs for the research paper (EES 1101Y).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
6 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Course List

Please note that not all courses are offered every year.

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
EES 1104H	Microorganisms and 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	Fluid Dynamics of Contaminant Transport
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 1129H	Brownfields Redevelopment
EES 1130H	Ontario BioGeospheres Field Course
EES 1131H	Applied Climatology
EES 1132H	Climate Data Analysis
EES 1133H	Climate Change Science and Modelling
EES 1134H	Climate Change Policy
EES 1135H	Environmental Change and Human Health
EES 1701H	Environmental Legislation and Policy
EES 1704H	Environmental Risk Assessment
EES 3000H	Applied Conservation Biology

Degree and Diploma Programs by Graduate Unit

EES 3001H	Professional Scientific Literacy
EES 3002H	Conservation Policy
EES 3003H	Topics in Applied Biodiversity
EES 3111H	Conservation Genetics
EES 3113H	Topics in Population and Community Ecology
EES 3114H	Topics in Urban and Rural Ecology

Doctor of Philosophy

Research and teaching are focused on the interfaces between traditional disciplines in dealing with fundamental scientific issues. Faculty members are cross-appointed from several departments including: chemistry, earth sciences, geography, ecology and evolutionary biology, cell and systems biology, engineering, forestry, and social sciences. Research is clustered into six major concentrations:

1. Climate Change and the Environment
2. Contaminant Flux
3. Environmental Science in Transitional Economies
4. Great Lakes Ecosystems
5. Remediation and Restoration of Degraded Environmental Systems
6. Urban Geoscience

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Physical and Environmental Sciences' additional admission requirements stated below.
- Applicants 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. Transfer from the MEnvSc program is not permitted.
 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 University of Toronto average of A- or equivalent.

Program Requirements

- A total of 2.0 full-course equivalents (FCEs) as follows: a mandatory 0.5 FCE (EES 2200H)

Degree and Diploma Programs by Graduate Unit

Advanced Seminar in Environmental Science) plus 1.5 FCEs to provide background for the student's research. Courses selected must be approved by the student's supervisor and the Graduate Chair. In some cases, additional courses may be required if a student's preparedness is assessed as being insufficient.

- Students may apply to take a number of PhD-level courses taught by the core faculty, both within the Graduate Department of Physical and Environmental Sciences and outside the Graduate Department of Physical and Environmental Sciences as part of their 1.5 FCEs for the degree. However, all courses for the PhD degree must be approved by the student's supervisor and the Graduate Chair.
- The execution of an original piece of research in environmental science carried out under faculty supervision and presented in thesis form. The program requires the development and submission of a thesis proposal, and its examination in an oral thesis proposal appraisal (before the end of Year 2), a departmental oral examination of the completed thesis, and a Doctoral Final Oral Examination (FOE) carried out under the auspices of the School of Graduate Studies (SGS) involving examination by an appropriate at-arms-length external examiner.
 - The PhD proposal appraisal consists of a 20-minute presentation given by the student on the proposed thesis work followed by a question period of approximately two hours. The emphasis will be on the theory and proposed approach, rather than on progress to date. A negative outcome requires that the student retake the exam within four months by considering suggestions offered by the committee for improving the thesis research proposal. The outcome of the second exam will be either a pass or withdrawal from the program.
 - The Graduate Department of Physical and Environmental Sciences' PhD program requires that all PhD candidates complete two thesis defences: a Departmental Thesis Defence and an FOE with the SGS. Normally, the Departmental Thesis Defence will be held at least eight weeks prior to the FOE. The committee will notify the Graduate Chair that the thesis is ready to be forwarded to SGS for the FOE. If the PhD candidate does not pass the Departmental Thesis Defence, the committee may recommend that the PhD candidate postpone their FOE.
- 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 their MSc program for students transferring from a master's program (excluding the MEnvSc)

- **five years** for direct-entry students from a bachelor's program.

Program Length

4 years full-time; 5 years transfer-from-master's; 5 years direct-entry

Time Limit

6 years full-time; 7 years transfer-from-master's; 7 years direct-entry

Course List

Core Course

EES 2200H	Advanced Seminar in Environmental Science
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The following are courses offered within the Department of Physical and Environmental Sciences. With the approval of the Graduate Chair, relevant courses from other graduate departments can be applied to the required 1.5 FCEs. Not all courses are offered every year.

Elective Courses

EES 1102H	Analytical Chemistry for Geoscientists
EES 1103H	Air and Water Quality Sampling and Monitoring
EES 1104H	Microorganisms and 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	Fluid Dynamics of Contaminant Transport
EES 1121H	Modeling the Fate of Organic Chemicals in the Environment

Degree and Diploma Programs by Graduate Unit

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 1131H	Applied Climatology
EES 1132H	Climate Data Analysis
EES 1133H	Climate Change Science and Modelling
EES 1134H	Climate Change Policy
EES 1135H	Environmental Change and Human Health
EES 2201H	Advanced Readings in Environmental Science
EES 3000H	Applied Conservation Biology
EES 3001H	Professional Scientific Literacy
EES 3002H	Conservation Policy
EES 3003H	Topics in Applied Biodiversity
EES 3111H	Conservation Genetics
EES 3113H	Topics in Population and Community Ecology
EES 3114H	Topics in Urban and Rural Ecology

Kronzucker, Herbert - PhD
 Lovejoy, Nathan Richard - BSc, MS, PhD
 Malcolm, Jay - BSc, MSc, PhD
 Mandrak, Nicholas - BSc, MSc, PhD
 Miall, Andrew - BSc, PhD
 Mitchell, Carl - PhD
 Murphy, Jennifer - BCh, DChem
 Sherwood Lollar, Barbara - PhD
 Simpson, Andre - BSc, PhD
 Simpson, Myrna - BS, DPhil
 Smith, Sandy - BAgSc, MSc, PhD
 Tsuji, Leonard - BSc, DDS, PhD
 Vanlerberghe, Greg - BSc, MSc, PhD
 Wania, Frank - MPH, PhD
 Wells, Mathew - BS, DPhil
 Wortmann, Ulrich - BSc, MSc, PhD

Members Emeriti

Stefanovic, Ingrid - BA, MA, PhD

Associate Members

Daxberger, Heidi - PhD
 Dennis, Philip - BSc, MASc
 Doughty, Mike - BS, MS
 Dunlop, Erin - BSc, PhD
 Helm, Paul - BSc, MASc, DChem
 Martin, Adam - BA, MF, PhD
 Mclellwain, Tom - BS
 Mohsin, Tanzina - PhD
 Ollson, Christopher A. - BSc, MSc, PhD
 Southwood, Jeanette - BSChE, MS
 Zhu, Jiping - BS, MSc, DSc

Graduate Faculty

Full Members

Abbatt, Jonathan - BSc, PhD
 Allen, D Grant - BASc, MASc, PhD
 Andrade, Maydianne - BSc, MS, 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 (**Graduate Chair**)
 Gough, William - BSc, MSc, PhD
 Hoffmann, Matthew - BSc, PhD
 Howard, Kenneth - BSc, MSc, PhD
 Jackson, Donald - BSc, MSc, PhD
 Klenk, Nicole - BS, MSc, PhD
 Kraatz, Heinz-Bernhard - BA, MC, PhD (**Chair**)

Physical Therapy

Faculty Affiliation

Medicine

Degree Programs

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 **Master of Science in Physical Therapy, Advanced-Standing Option** allows eligible physical therapists with a bachelor's degree in physiotherapy to acquire the master's degree in an online environment with one on-campus residency. 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Physical Therapy's additional admission requirements stated below.

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).
- Proficiency 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 Test of English as a Foreign Language (TOEFL), with minimum scores of:
 - paper-based test: 600 with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE)
 - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.
- Applicants can apply online using the Ontario Rehabilitation Sciences Programs Application Service (ORPAS). Applications are accepted starting mid-October each year, with an early January deadline. Transcripts are due by the end of January. Exact deadlines are posted on the ORPAS website, in the ORPAS Instruction Booklet and on the Physical Therapy website.
- Visit the Physical Therapy and the ORPAS websites for additional information regarding application requirements and document submissions (e.g., confidential assessment forms, prerequisites, and the Computer Administered Profile exam).

12-Month 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 bachelor's degree in physiotherapy with a minimum mid-B average in the final year.
- Applicants must have successfully completed the national Canadian Physiotherapy Competency Examination (with the exception of individuals licensed to practice in Quebec) and be licensed for independent practice in Canada with a provincial regulating body.
- Proficiency 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 Test of English as a Foreign Language (TOEFL), with minimum scores of:
 - paper-based test: 600 with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE)

- Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.
- Refer to the departmental website for additional information.

Program Requirements

24-Month Program

- The MScPT is a two-year, 18.5-FCE program of continuous, full-time study.
- Included within the program structure are 28 weeks of full-time clinical internships.
- Students are required to complete all required courses, as listed below.

12-Month Advanced-Standing Option

- Complete the program option 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.
- For information on units of instruction, please visit the website.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

3 sessions advanced-standing (typical registration sequence: F/W/S)

Time Limit

3 years

Course List

Required Courses

PHT 1001H	Introduction to Professional Physical Therapy Practice, Evaluation and Research
PHT 1002Y	Cardiorespiratory and Exercise Physical Therapy Practice
PHT 1003Y	Musculoskeletal Physical Therapy Practice
PHT 1004Y	Clinical Internship—Cardiorespiratory (Honours/Pass/Fail)
PHT 1005Y*	Neurological Physical Therapy Practice
PHT 1006Y	Research and Program Evaluation for Physical Therapy Practice I
PHT 1007Y	Clinical Internship—Neuroscience (Honours/Pass/Fail)

Degree and Diploma Programs by Graduate Unit

PHT 1008Y*	Advanced Neuromusculoskeletal Physical Therapy Practice
PHT 1009Y	Clinical Internship—Musculoskeletal II (Honours/Pass/Fail)
PHT 1010Y	Research and Program Evaluation for Physical Therapy Practice II (Honours/Pass/Fail)
PHT 1011Y	Clinical Internship—Selective (Honours/Pass/Fail)
PHT 1012Y	Research and Program Evaluation for Physical Therapy Practice III
PHT 1014Y	Clinical Internship—Musculoskeletal (Honours/Pass/Fail)

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

Elective 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.)
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Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
 Berg, Katherine - BPT, BSc(PT), MSc, PhD
 Brooks, Dina - BSc(PT), MSc, PhD
 Cott, Cheryl - DipP, BPT, MSc, PhD
 Gibson, Barbara - MSc, BMR(PT), PhD
 Jaglal, Susan - BSc, MSc, PhD
 Mathur, Sunita - BSc(PT), MSc(PT), PhD
 Nixon, Stephanie - BHSc(PT), BA, MSc, PhD
 Reid, Wendy Darlene - BMR(PT), PhD **Chair and Graduate Chair**
 Salbach, Nancy - BSc(PT), BS, MSc, PhD
 Yoshida, Karen - BSc, BPHE, MSc, PhD
 Zabjek, Karl - BSc, MCISc, PhD

Members Emeriti

Verrier, Mary (Molly) - DipOT, MHSc

Associate Members

Davies, Robyn - DipP, BHSc(PT)
 Evans, Catherine - BSc, MSc, PhD (**Coordinator of Graduate Studies**)
 Hunter, Judith - BPT, MSc, PhD
 Mori, Brenda - BSc(PT), MSc
 O'Brien, Kelly - BSc(PT), BS, PhD
 Patterson, Kara - BSc, BPT, MSc, PhD
 Switzer-Mcintyre, Sharon - BSc, BPHE, PhD

Physics

Faculty Affiliation

Arts and Science

Degree Programs

Physics

MSc

PhD

Collaborative Programs

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

1. **Biomedical Engineering**
 - Physics, MSc, PhD
2. **Earth Sciences and Physics**
 - Physics, MSc, PhD
3. **Environmental Studies**
 - Physics, MSc, PhD
4. **Optics**
 - Physics, MSc

Overview

The Department of Physics offers graduate programs leading to the **Master of Science** and **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 biological physics. The department has close ties with the Canadian Institute for Theoretical Astrophysics (CITA). This association enables our students to work and consult with leading theorists who are appointed to, or who are visiting, CITA.

Students are admitted under the General Regulations of the School of Graduate Studies. 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Physics' additional admission requirements stated below.
- An appropriate bachelor's degree with a final-year average equivalent to at least a University of Toronto mid-B.
- Proof of English-language proficiency 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Physics' additional admission requirements stated below.

- An appropriate University of Toronto master's degree with an average of at least B+ or demonstrated comparable research competence.
- Proof of English proficiency 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 towards 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 eight 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.

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

Degree and Diploma Programs by Graduate Unit

PHY 1491H	Current Interpretations of Quantum Mechanics
PHY 1492H	Physics of the Earth
PHY 1493H	Seismology
PHY 1494H	Geophysical Imaging: EM and 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
PHY 1610H	Scientific Computing 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 2303H	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

Degree and Diploma Programs by Graduate Unit

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
PHY 2702H	Molecular Biophysics
PHY 2703H	Cellular Biological Physics
PHY 2704H	Cellular Dynamics
PHY 2705H	Special Topics in Biological Physics I
PHY 2706H	Special Topics in Biological Physics II
JGP 4170H	Geotectonics

Report Course for MSc Students

PHY 3400Y ⁺	Selected Topics in Physics
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⁺ *Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.*

Seminar Courses

PHY 7001Y ⁺	Atmospheric Physics Seminar
PHY 7002Y ⁺	Biophysics Seminar
PHY 7003Y ⁺	Condensed Matter Physics Seminar
PHY 7004Y ⁺	Geophysics Seminar
PHY 7005Y ⁺	Quantum Optics Seminar
PHY 7007Y ⁺	Subatomic Physics and Astrophysics Seminar

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

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
 Barzda, Virginijus - BS, DSc
 Bond, J Richard - BSc, MS, PhD, FRSC, FRS
 Dhirani, Al-Amin - MSc, PhD
 Donaldson, D. James - PhD
 Dyer, Charles - BS, MSc, PhD
 Ghent, Rebecca - BA, MSc, PhD
 Goyal, Sidhartha - MS, PhD
 Gradinaru, Claudiu - PhD
 Green, Daniel - PhD
 Grisouard, Nicolas - BSc, MS, PhD
 Holdom, Bob - BSc, MA, PhD
 James, Daniel - BA, PhD
 John, Sajeev - PhD
 Jones, Dylan - AB, SM, PhD
 Julian, Stephen - BSc, MS, PhD (**Chair and Graduate Chair**)
 Kee, Hae-Young - PhD
 Kim, Yong Baek - PhD
 Kim, Young-June - BS, PhD
 Krieger, Peter - PhD
 Kushner, Paul - BSc, MSc, PhD
 Liu, Qinya - PhD
 Lo, Hoi-Kwong - BA, MA, MS, PhD
 Lowman, Julian - BSc, MS, DPhil
 Luke, Michael - BSc, PhD
 Marjoribanks, Robin - BSc, MS, MSc, PhD
 McMillen, David - BSc, MS, PhD
 Milkereit, Bernd - DrRerNat
 Miller, R J Dwayne - BSc, PhD
 Milstein, Josh - BS, PhD
 Moore, G W Kent - BSc, PhD
 Morris, Stephen - BSc, MSc, PhD
 Murray, Norman - BSc, PhD, CRC
 Netterfield, C. Barth - BSc, PhD
 Orr, Robert - BSc, PhD, ARCS
 Paramekanti, Arun - BE, PhD

Peet, Amanda - PhD
Peltier, W Richard - BSc, MSc, PhD
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - MSc, PhD, CRC
Poppitz, Erich - PhD
Rein, Hanno - MS, DPhil
Repka, Joseph - BSc, PhD
Ryu, William - AB, PhD
Savard, Pierre - 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 (**Associate Chair, Graduate Studies**)
Valencia, Diana - BS, MS, ScD
Vanderlinde, Keith - PhD
Walker, Kaley - BSc, PhD
Wei, John - PhD
Wells, Mathew - BS, DPhil
Zilman, Anton - BSc, MSc, PhD

Members Emeriti

Bailey, Richard - BSc, PhD
Birgeneau, Robert - BSc, PhD
Code, Richard - BSc, AM, PhD
Desai, Rashmikant - BSc, PhD
Drake, Thomas - BSc, MSc, PhD
Drummond, James - BA, MA, DPhil
Dunlop, David - MA, PhD
Edwards, Richard - BSc, PhD, ARCS
Joy, Michael - BSc, MSc, PhD
Key, Anthony - MA, DPhil
Litherland, Albert - BSc, PhD, FRS
Logan, Robert - BSc, PhD
Martin, John - PhD
May, Albert - BA, MA, PhD
Norwich, Kenneth - MSc, PhD
Perz, John - BSc, MSc, PhD
Rowe, David - BA, MA, DPhil
Van Driel, Henry - BSc, MSc, PhD
Walker, Michael - BEng, DPhil
West, Gordon - BSc, MA, PhD
Wong, Samuel - BA, MS, PhD

Associate Members

Clark, Kenneth - BSc, PhD
Deyirmenjian, Vatche Berj - PhD
Polavarapu, Saroja - PhD
Savaria, Pierre - MSc, PhD
Smith, Kendrick - PhD

Physiology

Faculty Affiliation

Medicine

Degree Programs

Physiology

MSc

PhD

Combined Degree Programs

MD / 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. **Human Development**
 - Physiology, PhD
5. **Neuroscience**
 - Physiology, MSc, PhD
6. **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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Physiology's additional admission requirements stated below.
- Admission is based on academic record, an essay summarizing background strengths and scientific aims, a curriculum vitae (CV), and at least two confidential letters of reference.
- Applicants must have an appropriate bachelor's degree from a recognized university with a final-year average of at least B+ and with courses such as biology, 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 proficiency in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - 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 1000H⁰ *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 (preferable 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.

- Complete and defend a research thesis acceptable to the graduate department.
- Do one of the following within 12 to 18 months in the MSc program:
 - Write and defend an MSc thesis and graduate.
 - Write and defend a thesis and go on to the PhD program.
 - Transfer from the MSc into the PhD program. Transfer is encouraged for students who have made substantial progress in their research and have demonstrated the desire and potential to meet the requirements of a rigorous research training program. Such students will have fulfilled all course requirements for the MSc with at least an A- average and have demonstrated potential for publication of their work. There must be a clearly identified program for future research that continues, or is consistent with, work already underway. Too large a project for the MSc is not a reason for transfer to the PhD.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S**)

Time Limit

3 years full-time

** *Students may begin at different times.*

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Physiology's additional admission requirements stated below.
- Admission is based on academic record, a statement summarizing background strengths and scientific aims, a curriculum vitae (CV), and at least two confidential letters of reference.
- Students may be admitted via one of the following routes:
 - After completion of an appropriate MSc degree program with an average of at least B+ from a recognized university
 - Through transfer from the University of Toronto MSc program
 - For exceptional students with an A standing in appropriate courses taken during the two preceding undergraduate years, direct entry into the doctoral program is possible. However, this will require specific approval by the Graduate Studies Committee.
- Applicants should have taken courses such as biology, biochemistry, calculus, organic and physical chemistry, general physics, and physiology.
- Applicants who were educated outside Canada, whose primary language is not English, and who

Degree and Diploma Programs by Graduate Unit

graduated from a university where the language of instruction was not English, must demonstrate proficiency in the English language through the successful completion of the Test of English as a Foreign Language (TOEFL) with the following minimum scores:

- 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 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 2000H⁰ *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 1066H⁰ *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.

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

Degree and Diploma Programs by Graduate Unit

Combined Degree Program: Medicine, Doctor of / Doctor of Philosophy

For full details, please see the Medicine, Doctor of / Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

Course List

Not all courses are offered each year. Check the departmental website for course availability and course requirements.

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 Research in Cardiovascular Sciences—Heart Function
JCV 3063H	Advanced Research in Cardiovascular Sciences—Vascular
JYG 1555H	Advanced Topics: Cellular and Molecular Neurobiology
PSL 1000H ⁰	MSc Seminars in Physiology (Credit/No Credit)
PSL 1014H	Advanced Topics: the Gastrointestinal Epithelium
PSL 1022H ⁺	Reproductive and Developmental Medicine
PSL 1024H	Advanced Topics: Neuroendocrinology
PSL 1026H	Advanced Topics: Experimental Cell Physiology
PSL 1034H	Advanced Topics: Metabolic Disorders
PSL 1036H	Advanced Topics: Respiration
PSL 1040H	Advanced Topics: Systems Biology in Physiology
PSL 1047H	Advanced Topics: Somatosensory and Pain Neuroscience
PSL 1048H	Translational Physiology: From Molecules to Model Systems to the Clinic
PSL 1050H	Advanced Topics: The Hippocampus from Cell to Behaviour
PSL 1053H	Advanced Topics: Critical Assessment of Ion Channel Function

PSL 1066H ⁰	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 1075H	Biology in Time
PSL 1080H ⁺	Advanced Topics: Investigative Developmental Physiology
PSL 1086H	Comparative Systems Approach to Diving Physiology
PSL 2000H ⁰	PhD Seminars in Physiology (Credit/No Credit)

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

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

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 Life
PSL 1425H	Integrative Metabolism and Its Endocrine Regulation
PSL 1432H	Theoretical Physiology
PSL 1441H	Systems Level Neuroplasticity
PSL 1445H	Mechanistic Molecular and Cellular Neuroscience
PSL 1446H	Molecular and Cellular Aspects of Neural Disorders
PSL 1452H	Fundamentals of Ion Channel Function
PSL 1462H	Molecular Aspects of Cardiovascular Function

Graduate Faculty

Full Members

Adamson, Susan - BSc, MSc, MD, PhD
 Anderson, Gerald - BSc, MSc, PhD
 Backx, Peter - DrMedVet, PhD, PhD
 Bagli, Darius - BS, MD
 Bear, Christine - BSc, MSc, PhD
 Belik, Jaques - MD
 Belsham, Denise - PhD **(Acting Chair)**
 Bocking, Alan - MD
 Bolz, Steffen-Sebastian - MD, DrMed
 Boonstra, Rudy - BSc, PhD
 Brown, Theodore - BSc, PhD
 Brubaker, Patricia - BSc, PhD
 Caniggia, Isabella - MD, PhD
 Carlen, Peter - MD
 Casper, Robert - MD
 Challis, John - BSc, PhD, DSc, FRSC
 Charlton, Milton - BSc, MSc, PhD
 Collingridge, Graham - FRS, FMedSci, FSB, FBPhS
(Chair and Graduate Chair)
 Cox, Brian - BSc, MSc, PhD
 Dostrovsky, Jonathan - BSc, MSc, PhD
 Duffin, James - BSc, MSc, PhD
 Eubanks, James - BSc, AA, PhD
 Fantus, George - BSc, MDCM
 Feng, Zhong Ping - PhD
 Ferguson, Niall - MSc, MD
 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
 Kuebler, Wolfgang - DrMed, PhD
 Lam, Tony - BS, DPhil
 Lambe, Evelyn - AB, MSc, PhD
 Levitan, Robert - MSc, MDCM
 Lewis, Gary - BCh, MBChB
 Liu, Fang - PhD
 Liu, Mingyao - MSc, MD
 Liu, Peter - MD
 Lye, Stephen - BSc, PhD
 Macdonald, Robert - MD, PhD

Matthews, Stephen - BSc, DPhil
 McGowan, Patrick - BSc, MA, PhD
 McNamara, Patrick - MB
 Miller, Freda - BSc, PhD
 Monnier, Philippe - MBA, PhD
 Mount, Howard - BSc, PhD
 Ng, Dominic - MD
 Orser, Beverley - MD
 Palmert, Mark - MD
 Pennefather, Peter - BSc, PhD
 Post, Martin - PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Quaggin, Susan Elizabeth - MD
 Rocheleau, Jonathan - BSc, PhD
 Roder, John - PhD
 Rogers, Ian - MSc, PhD
 Rosenblum, Norman - MD
 Salter, Michael - MD, PhD
 Schlichter, Lyanne - BSc, MSc, PhD
 Scholey, James - MD
 Seltzer, Ze'ev - DMD, BMedSc
 Sessle, Barry - BS, MDS, BDS, PhD
 Skinner, Frances - PhD
 Sole, Michael - BSc, MD
 Stanley, Elise - PhD
 Sugita, Shuzo - PhD
 Sun, Hong-Shuo - MSc, DrMed, DPhil
 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
 Volchuk, Allen - BSc, PhD
 Vranic, Mladen - MD, DSc
 Wang, Lu-Yang - PhD
 Wheeler, Michael - BSc, PhD
 Wilson, Gregory - MSc, MD
 Wittnich, Carin - MSc, DVM **(Graduate Coordinator)**
 Wojtowicz, J. Martin - BSc, PhD **(Graduate Coordinator)**
 Zhen, Mei - PhD
 Zhuo, Min - MS, PhD

Members Emeriti

Atwood, Harold - BA, MA, PhD, PhD, DSc, DSc, FRSC
 Kwan, Hon - BSc, MSc, PhD
 Norwich, Kenneth - MSc, PhD
 Verrier, Mary (Molly) - DipOT, MHS

Associate Members

Chauhan, Vijay - MD
 Fisher, Joseph - MD
 Kingdom, John - DipCH, MB, MD
 Laffey, John - BSc, MA, DrMed, MB
 Librach, Clifford - MD
 Mazer, Cyril David - MD
 Min, Jinrong - PhD

Degree and Diploma Programs by Graduate Unit

Ni, Heyu - MSc, MD, PhD
Nostro, Cristina - MSc, PhD
O'Brien, Catherine - BSc, MSc, DrMed, PhD
Pausova, Zdenka - MD
Ramsey, Amy - PhD
Wen, Xiao-Yan - PhD
Zhang, Haibo - MSc, PhD

Political Science

Faculty Affiliation

Arts and Science

Degree Programs

Political Science

MA

PhD

Combined Degree Programs

Law, JD / Political Science, 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. **Environmental Studies**
 - Political Science, MA, PhD
4. **Ethnic and Pluralism Studies**
 - Political Science, MA, PhD
5. **Global Health**
 - Political Science, PhD
6. **Jewish Studies**
 - Political Science, MA, PhD
7. **Sexual Diversity Studies**
 - Political Science, MA, PhD
8. **South Asian Studies**
 - Political Science, PhD
9. **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 Theory, Political Science, 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

Degree and Diploma Programs by Graduate Unit

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

Fax: 416-978-5566

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Political Science's additional admission requirements stated below.
- 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.

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.

Degree and Diploma Programs by Graduate Unit

- 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 major research paper. POL 2810Y and POL 2811Y are the two seminars currently offered which meet this requirement.
- The MA program may be taken on a part-time basis.

Field: Political Economy of International Development (PEID)

- JGP 2408Y.
- 0.5 FCE in geography or economics, selected from an approved 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 a research essay in the political economy of international development within the context of the *MA Research Seminars*, POL 2810Y or POL 2811Y.
- The remaining 0.5 FCE must be selected from either list of approved courses.

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 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

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.

- Applicants must also satisfy the Department of Political Science's additional admission requirements stated below.
- Applicants may be admitted via one of three routes:
 1. Excellent students who have completed an MA degree in Political Science (or its equivalent) by the time of enrolment.
 2. 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.
 3. 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 the instructions.

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

Degree and Diploma Programs by Graduate Unit

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 2. 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 Year 2 of the PhD program. A student who fails to achieve a grade of at least A- is permitted one opportunity to retake the examination. 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 Year 3 (Year 4 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 Year 5 (in the case of those admitted from an MA) or Year 6 (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 3 (or Year 4 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 the student's relevant background in the fields or area of choice. All PhD students are required to have at least a 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.

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

Combined Degree Program: Law, Juris Doctor / Political Science, Doctor of Philosophy

For full details, see the Law, Juris Doctor / Political Science, Doctor of Philosophy entry in the Combined Degree Programs section of this calendar.

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.

Political Theory

POL 2000Y	Comparative Studies in the History of Political Thought (core course)
POL 2001H	Problems of Political Community
POL 2006H	Studies in Modern Political Theory*
POL 2007H	Twentieth-Century Political Thought*
POL 2011Y	Problems in the Political Thought of the Socratic School
POL 2019Y	Moral Reason and Economic History
POL 2021Y	Comparative Studies in Jewish and Non-Jewish Political Thought
POL 2025Y	Enlightenment and its Critics
POL 2026H, Y	Topics in Political Thought I
POL 2027H, Y	Topics in Political Thought II
POL 2028H	Approaches to Political Theory
POL 2029H	Sovereignty
JPJ 2029H	Religion and the Liberal State: the Case of Islam
POL 2030H	The Spirit of Democratic Citizenship
POL 2032H	Judgement in Law and Politics

Degree and Diploma Programs by Graduate Unit

JPJ 2036Y	Comparative Constitutionalism: Rights and Judicial Review
JPD 2037Y	Post-Modern and Contemporary Thought
POL 2038H	Studies in Comparative Political Theory
POL 2040H	Horizons of Political Reflection
POL 2057Y	Markets, Justice, and the Human Good
JPR 2058H	Postsecular Political Thought: Religion, Radicalism, and the Limits of Liberalism
POL 2061H	Studies in Civic Republicanism
POL 2212H	Human Rights Politics and International Relations
POL 2226H	Ethics and International Relations
POL 2371H	Urban Revolution: Contemporary Constellations of Spatial Politics
RLG 3622H	Maimonides and His Modern Interpreters

Canadian Politics

POL 2100Y	Government of Canada (core course)
POL 2102H	Topics in Canadian Politics I
POL 2103H	Topics in Canadian Politics II
POL 2128H	Federalism and Diversity in Canada (and Beyond)
POL 2139H	The Canadian Welfare State in Comparative Perspective
POL 2167H	The Politics of Immigration and Multiculturalism in Canada
POL 2173H	Environmental Politics and Policy in Canada
POL 2190Y	Topics in Canadian Politics I
POL 2191Y	Topics in Canadian Politics II
POL 2313H	Parties and Party Systems: A Canadian Perspective
POL 2314H	Public, Private, and the Liberal State
POL 2317H	Politics and Policy Analysis
POL 2345H	Politics of Growth in Developing Countries
HAD 5011H	Canada's Health System and Health Policy
HAD 5765H	Case Studies in Health Policy

International Relations

POL 2200Y	International Politics (core course)
JBP 2230H	Topics in International Politics
JPJ 2037H	International Trade Regulation
JPJ 2046H	Law, Institutions, and Development
JPJ 2048H	International Human Rights Law
JPJ 2049H	Women's Rights in International Law
POL 2202H	Advanced Topics in International Political Economy
POL 2205H, Y	Topics in International Politics I
POL 2206H, Y	Topics in International Politics II
POL 2207H	Topics in International Politics III
POL 2211H	International Political Economy of Finance
POL 2212H	Human Rights Politics and International Relations
POL 2213H	Global Environmental Politics
POL 2216Y	The Military Instrument of Foreign Policy
POL 2226H	Ethics and International Relations
POL 2234H	Globalization, Internationalization, and Public Policy
POL 2235H	Development, International Relations, Globalization: Through the Lens of a Gender
POL 2240H	Geopolitics of Cyberspace
POL 2256Y	The G8, G20, and Global Governance

Comparative Politics

POL 2700Y	Comparative Politics (core course)
JHP 1289Y	Twentieth-Century Ukraine
JPJ 2036H	Comparative Constitutionalism: Rights and Judicial Review
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
JPA 2310H	Democracy and Identity in Asia
JPA 2320H	Asia and the New Global Economy

POL 2316H	Women and Politics
POL 2317H	Politics and Policy Analysis
POL 2318Y	Comparative Public Policies: Selected Areas (core course)
JRA 2321H	Topics in Comparative Politics
POL 2321H, Y	Topics in Comparative Politics I
POL 2322H, Y	Topics in Comparative Politics II
POL 2325H	The Politics of Federalism in Comparative Perspective
POL 2326H	Democracy and Dictatorship
JRA 2337H	Government Law and Politics in Russia
POL 2338H	Innovation and Governance
POL 2344H	Politics of Independent Ukraine
POL 2345H	Politics of Growth in Developing Countries
POL 2351H	Contentious Politics
POL 2361Y	Globalization and Indigenous Politics
POL 2372H	The Comparative Political Economy of Industrial Societies
JRA 2391H	Topics in Comparative Politics
POL 2391H, Y	Topics in Comparative Politics III
POL 2392H, Y	Topics in Comparative Politics IV
POL 2394H	Innovation and Knowledge Transfer in City Regions
POL 2411H	Topics in Asian Politics
POL 2429H	Democracy and Ethnic Conflict
JPF 2430Y	Cities

Development Studies

POL 2400H	Theories and Issues—The Politics of Development (core course)
JPA 2310H	Democracy and Identity in Asia
POL 2322H	Topics in Comparative Politics II
POL 2325H	The Politics of Federalism in Comparative Perspective
POL 2326H	Democracy and Dictatorship
POL 2345H	Politics of Growth in Developing Countries
POL 2391H, Y	Topics in Comparative Politics III
POL 2392H, Y	Topics in Comparative Politics IV
POL 2403H, Y	Topics in African Politics I
POL 2404H, Y	Topics in African Politics II

Degree and Diploma Programs by Graduate Unit

POL 2405H	Topics in Latin American Politics
JGP 2408Y	Political Economy of International Development
POL 2411H	Topics in Asian Politics
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 2139H	The Canadian Welfare State in Comparative Perspective
POL 2167H	The Politics of Immigration and Multiculturalism in Canada
POL 2173H	Environmental Politics and Policy in Canada
POL 2213H	Global Environmental Politics
POL 2234H	Globalization, Internationalization, and Public Policy
POL 2307H	Political Economy of Technology: From the Auto-Industrial to the Information Age
POL 2376H, Y	Topics in Public Policy
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	Methods of Data Analysis
POL 2519H	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 2506H	Topics in Political Research Methods
POL 2578H	Topics in Methods
POL 2810Y	MA Research Seminar I
POL 2811Y	MA Research Seminar II

Degree and Diploma Programs by Graduate Unit

Independent Study and Special Topics

POL 2800H	Special Topics I
POL 2801H	Special Topics II
POL 2893H	Topics in Politics I
POL 2894H	Topics in Politics 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 - MA, PhD, FRSC
Andersen, Robert - BA, MA, PhD
Balot, Ryan - BA, AM, PhD
Bashevkin, Sylvia - BA, MA, PhD, FRSC
Bathelt, Harald - MA, PhD, CRC
Beiner, Ronald - BA, DPhil
Bejarano, Ana Maria - MA, MPH, PhD
Bernstein, Steven - PhD (**Director of Graduate Studies**)
Bertoldi, Nancy - BA, MA, PhD
Bertrand, Jacques - BA, MSc, MA, DrRerPol
Braun, Aurel - BA, MA, PhD
Breznitz, Dan - BA, PhD
Cameron, David - PhD, , FRSC
Carens, Joseph - AB, MPH, MPH, PhD
Chambers, Simone - BA, MPH, MA, PhD
Cook, David - BA, MA, PhD
Day, Richard - BA, MA, PhD
Deber, Raisa - BS, MS, PhD
Deibert, Ronald - BA, MA, PhD
Eyoh, Dickson - MA, PhD
Fletcher, Joseph - BA, MA, PhD
Haddow, Rodney - BA, MSc, PhD
Handley, Antoinette - BA, MPH, PhD
Hansen, Randall - BA, MPH, PhD, CRC
Hirschl, Ran - BA, LLB, MA, MPH, PhD, CRC
Hoffmann, Matthew - BSc, PhD
Jung, Courtney - BA, MA, PhD
Kingston, Paul - BA, MA, MPH, DPhil
Kingston, Rebecca - BA, MA, PhD
Kirtan, John - BA, MA, PhD
Kohn, Margaret - BA, MA, PhD
Kopstein, Jeffrey - BA, MA, PhD
Kuokkanen, Rauna - MA, MA, PhD
Magocsi, Paul - BA, MA, MA, PhD, FRSC
Marshall, Ruth - BA, MA, DPhil
McCarney, Patricia - BA, MCP, PhD
Nedelsky, Jennifer R - BA, MA, PhD
Nevitte, Neil - BA, MA, PhD, FRSC

Norrlöf, Carla - BS, MIR, MS, DrRerPol
Ong, Lynette - BA, AM, PhD
Orbinski, James - BSc, MA, MD
Orwin, Clifford - AB, AM, PhD
Pauly, Louis - BA, MA, MSc, MSc, PhD, CRC, FRSC
(**Chair**)
Prichard, Wilson R.S - BA, MPH, DPhil
Rayside, David - BA, AM, PhD
Roach, Kent - BA, LLB, LLM
Schatz, Edward - PhD
Schneiderman, David - BA, LLB, LLM
Shachar, Ayelet - LLB, BA, LLM, SJD
Skogstad, Grace - DrRerPol
Stein, Janice - BA, MA, PhD, OC, FRSC
Teichman, Judith Ann - BA, MA, PhD
Triadafilopoulos, Phil (Triadafilos) - BA, MA, PhD
Vipond, Robert - BA, MA, AM, PhD
Way, Lucan Alan - BA, 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, CRC
Wong, Wendy - MA, PhD

Members Emeriti

Andrew, Edward - BA, PhD
Barker, Jonathan - PhD
Brudner, Alan S - BA, MA, PhD
Clarkson, Stephen - BA, BA, MA, PhD, FRSC
Cunningham, Frank - BA, MA, PhD
Donnelly, Michael - BSc, MA, PhD
Falkenheim, Victor - AB, MA, PhD
Griffiths, Franklyn Jc - BA, MIA, PhD
Horowitz, Gad - BA, PhD
Kontos, Alkis - MA, PhD
LeDuc, Lawrence - BA, MA, PhD
Manzer, Ronald - BEd, BA, MA, PhD
Matthews, Robert - BA, MIA, PhD
Pratt, R Cranford - BA, BPhil, FRSC, OC
Rotstein, Abraham - BA, PhD
Rubinoff, Arthur - BA, MA, PhD
Russell, Paul - BA, BEd, MA
Russell, Peter - BA, BA, FRSC, OC
Sandbrook, Richard - BA, MA, DPhil, FRSC
Schwartz, Donald - BA, MA, PhD
Solomon, Peter - BA, MA, PhD
Solomon, Susan - BA, MA, PhD
Stren, Richard - BA, MA, PhD
Tuohy, Carolyn - BA, MA, PhD, FRSC
Watkins, Melville - BCom

Associate Members

Abele, Frances - PhD
Ariga, Kenichi - MA, MCP, PhD
Bejan, Teresa - BA, MPH, MA, PhD

Degree and Diploma Programs by Graduate Unit

Borins, Sandford - BA, PhD
Choudhry, Sujit - LLB, LLM
Craft, Jonathan - MA, PhD
de Miguel Moyer, Carolina - BA, MA, PhD
Donnelly, Michael - BA, MSS, DrRerPol
Enright, Theresa - BA, PhD
Fu, Diana Xuan - BA, MPH, PhD
Gilady, Lilach - BA, MPH, MA, PhD
Gunitskiy, Vsevolod - BA, MA, MPH, PhD
Guzzini, Stefano - PhD
Indart, Gustavo - BA, MA, PhD
Klenk, Nicole - BS, MSc, PhD
Meier, Heinrich - PhD
Mukherjee, Shivaji - MA, MPH, PhD
Nadeau, Richard - PhD
Renckens, Stefan - BS, MPH, PhD
Schertzer, Robert Stephen - BS, MSc, ScD
Siegel, David - DPhil
Stark, Andrew - BA, MSc, AM, PhD
Tolley, Erin - PhD

Psychological Clinical Science

Faculty Affiliation

University of Toronto Scarborough (UTSC)

Degree Programs

Counselling and Clinical Psychology

MA
PhD

Fields:

Clinical Psychology (offered by the Graduate Department of Psychological Clinical Science, UTSC)
Clinical and Counselling Psychology (offered by the Department of Applied Psychology and Human Development, Ontario Institute for Studies in Education [OISE], St. George campus)

Collaborative Programs

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

1. **Aboriginal Health**
 - Counselling and Clinical Psychology (OISE), MA, PhD
2. **Addiction Studies**
 - Counselling and Clinical Psychology (OISE), MA, PhD
3. **Aging, Palliative and Supportive Care Across the Life Course**
 - Counselling and Clinical Psychology (OISE), MA, PhD
4. **Community Development**
 - Counselling and Clinical Psychology (OISE), MA, PhD
5. **Environmental Studies**
 - Counselling and Clinical Psychology (OISE), MA, PhD
6. **Sexual Diversity Studies**
 - Counselling and Clinical Psychology (OISE), MA, PhD
7. **Women and Gender Studies**
 - Counselling and Clinical Psychology (OISE), MA, PhD

Overview

The Graduate Department of Psychological Clinical Science (UTSC) and the Department of Applied Psychology and Human Development (OISE) offer a graduate program in Counselling and Clinical Psychology (MA/PhD).

Field: Clinical and Counselling Psychology (MA, PhD) (offered by the Department of Applied Psychology and Human Development, OISE).

Field: Clinical Psychology (MA, PhD) (offered by the Graduate Department of Psychological Clinical Science, UTSC).

Note: Normally, students may not transfer between fields in the Counselling and Clinical Psychology program once admitted.

Contact and Address

Web: www.utoronto.ca/psych/graduate-training-clinical-psychology

Email: clinical-psych@utoronto.ca

Telephone: (416) 208-4867

Graduate Department of Psychological Clinical Science
University of Toronto Scarborough (UTSC)
Science Wing, Room SW427D
1265 Military Trail
Toronto, Ontario M1C 1A4
Canada

Degree Programs

Counselling and Clinical Psychology

The Counselling and Clinical Psychology program offers studies leading to the MA and PhD degrees. It is offered by the Department of Applied Psychology and Human Development (OISE), and the Graduate Department of Psychological Clinical Science at the University of Toronto Scarborough (UTSC).

This graduate program is intended for students seeking to pursue careers in research, teaching, and clinical practice. At the time of application, students will be required to identify a preference for a specific field and for a potential supervisor with whom they would work if admitted to the program. The program has two fields: Clinical Psychology offered primarily by UTSC; Clinical and Counselling Psychology offered primarily by OISE.

Field: Clinical Psychology

The field in Clinical Psychology is offered primarily by the Department of Psychological Clinical Science at UTSC.

Clinical Psychology at UTSC adheres to a **Clinical Science** model of training. Housed within the Graduate Department of Psychological Clinical Science, the primary and overriding objective of graduate training in Clinical Psychology at UTSC is to foster exceptional clinical scientists according to the highest standards of research and professional practice.

Graduate training in Clinical Psychology at UTSC has primary research strengths in the areas of **clinical neuropsychology and neurosciences, personality and psychological assessment, and mindfulness-**

and acceptance-based psychotherapies. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance the assessment and treatment of mental disorders, especially depressive and bipolar disorders, anxiety disorders, schizophrenia-spectrum disorders, borderline personality disorder, and neurocognitive disorders, such as dementia due to Alzheimer's or Parkinson's disease.

Master of Arts

The full-time, two-year MA program is designed for applicants interested in working as researchers or practitioners in a variety of psychological and educational settings. This program enables students to apply for registration with the College of Psychologists of Ontario (CPO) as a Psychological Associate. It also meets the needs of students who plan to apply to the PhD program in Counselling and Clinical Psychology.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Psychological Clinical Science's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with at least an A- (or first-class standing) in the final two years of undergraduate study, and at least 4.0 to 6.0 full-course equivalents (FCEs) in psychology including statistics and some laboratory research experience. Students who are admitted to the program without 4.0 to 6.0 FCEs in required undergraduate coursework may be required to complete additional courses in the master's program. Applicants with a strong background in mathematics, computer science, statistics, biological science, or neuroscience are encouraged to apply.
- Competitive scores on General and Subject (Psychology) tests of the Graduate Record Examinations (GRE).
- Two academic letters of reference.
- A personal statement.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must demonstrate proficiency in English. Applicants must complete the Test of English as a Foreign Language (TOEFL), or its equivalent according to SGS regulations, prior to submitting the application.

Program Requirements

- The Clinical Psychology field for the MA in Counselling and Clinical Psychology consists of 5.0 FCEs of total coursework, which includes an ethics course, practicum-based courses, and a clinical practicum.
 - **Year 1:**

Degree and Diploma Programs by Graduate Unit

Fall courses: CPS 1601H, CPS 1701H, CPS 1901H

Winter courses: CPS 1702H, CPS 1801H

◦ **Year 2:**

Fall courses: CPS 1102H

Fall and Winter courses: CPS 1802H, CPS 1803H

Winter courses: CPS 1101H

- Students must complete a clinical practicum at a pre-approved placement site in the final summer of the program (CPS 2999H).
- Research thesis to be completed and orally defended in Year 2 of the program.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

The PhD program is designed for applicants interested in a career as a clinical psychologist based on a **Clinical Science** model of training. Graduate training in Clinical Psychology at UTSC prepares graduates primarily for research careers as psychological clinical scientists in university and academic medical settings. The PhD program has research strengths in **clinical neuropsychology and neurosciences, personality and psychological assessment, and mindfulness- and acceptance-based psychotherapies**. It is distinguished by its innovative cross-disciplinary approach that emphasizes scientific innovation through novel research collaborations that push traditional boundaries in clinical psychology. Importantly, the program meets the needs of students who plan to engage in research, teaching, and/or evidence-based clinical practice. This program is intended to meet the registration requirements of the College of Psychologists of Ontario (CPO) at the doctoral level.

The Counselling and Clinical Psychology program (Clinical Psychology field) is offered on a full-time basis, and progress in the program will be reviewed annually.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Psychological Clinical Science's additional admission requirements stated below.
- A master's degree with specialization in Clinical Psychology (or its equivalent) from a recognized university, with a minimum A- average and excellent research performance.
- Two academic letters of reference.
- A personal statement.

Degree and Diploma Programs by Graduate Unit

- Applicants whose primary language is not English and who graduated from a university where the language of instruction is not English must demonstrate proficiency in English. Applicants must complete the Test of English as a Foreign Language (TOEFL), or its equivalent according to SGS regulations, prior to submitting the application.

Program Requirements

The PhD program requires 6.0 full-course equivalents (FCEs) including three clinical placements, plus a thesis proposal, thesis, and thesis defence:

- 6.0 FCEs in clinical coursework, normally completed by the end of Year 2 (CPS 1103H [unless previously completed; students who have completed CPS 1103H will not have to replace this required course with an additional FCE], CPS 1201H, CPS 1301H, CPS 1401H, CPS 1501H, CPS 1809H, CPS 3801H, CPS 3901H), and including:
 - two separate part-time clinical placements during Years 1 and 2 (CPS 3999H, CPS 4999H)
 - clinical internship at a Canadian Psychological Association- or American Psychological Association-accredited clinical setting during Year 5 (CPS 5999Y).
- Thesis proposal, approved during Year 3 of the program.
- Completed thesis.
- Successful defence of the thesis at the Final Oral Examination.

The program length is five years, which includes a pre-doctoral internship.

Program Length

5 years

Time Limit

6 years

Course List

CPS 1101H	Clinical Research Design (exclusion: APD 1263H Seminar in Research Methods for MA Students)
CPS 1102H	Statistical Techniques I (exclusion: APD 1287H Introduction to Applied Statistics)
CPS 1103H	Statistical Techniques II (exclusion: APD 1288H Intermediate Statistics and Research Design)
CPS 1201H	Neurobiological Bases of Behaviour
CPS 1301H	Cognitive-Affective Bases of Behaviour
CPS 1401H	Social and Interpersonal Bases of Behaviour

CPS 1501H	Personality
CPS 1601H	Psychopathology (exclusion: APD 3260H Psychopathology and Diagnosis)
CPS 1701H	Psychological Assessment I (exclusion: APD 3224H Individual Cognitive and Personality Assessment)
CPS 1702H	Psychological Assessment II
CPS 1801H	Psychotherapy (exclusion: APD 1202H Theories and Techniques of Counselling)
CPS 1802H	Applied Interventions in Clinical Psychology (exclusion: APD 1203Y Practicum I: Interventions in Counselling Psychology)
CPS 1803H	Practicum in Psychological Interventions (exclusion: APD 1203Y Practicum I: Interventions in Counselling Psychology)
CPS 1809H	Clinical Psychopharmacology
CPS 1901H	Ethics (exclusion: APD 1219H Ethical Issues in Professional Practice in Psychology)
CPS 2999H	Summer Practicum
CPS 3801H	Multi-Person Therapies (exclusions: APD 1261H Group Work in Counselling and APD 1228H Individual and Group Psychotherapy: Family and Couples Counselling)
CPS 3901H	The History and Practice of Clinical Psychology (exclusion: APD 3204H Contemporary History and Systems in Human Development in Applied Psychology)
CPS 3999H	Clinical Placement I
CPS 4999H	Clinical Placement II
CPS 5999Y	Internship (exclusion: APD 3268Y PhD Internship)

Field: Clinical and Counselling Psychology

The field in Clinical and Counselling Psychology is offered primarily by the OISE Department of Applied Psychology and Human Development. This field is based on a bio-psycho-social model with an emphasis on diversity. It shares an emphasis with the other field on assessment and the treatment of psychopathology in adults and adolescents.

Contact and Address

Web: www.oise.utoronto.ca/aphd/

Department of Applied Psychology and Human Development
Ontario Institute for Studies in Education (OISE)
University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

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. This program enables students to apply for registration with the College of Psychologists of Ontario (CPO) as a Psychological Associate. It also fulfils the requirements of students who plan to apply to the PhD program in Counselling and Clinical Psychology.

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Applied Psychology and Human Development's additional admission requirements stated below.
- 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).
- Scores on General and Subject tests of the Graduate Record Examination (GRE).
- A standing equivalent to a University of Toronto A- or better in the final year.

Program Requirements

- The MA consists of 4.0 FCEs of total coursework:
 - APD 1202H *Theories and Techniques of Counselling and Psychotherapy*
 - APD 1203Y *Practicum I: Interventions in Counselling Psychology and Psychotherapy*
 - APD 1204H *Personality Theories* or APD 1265H *Advanced Topics in Social and Personality Development*
 - APD 1208H *Individual Cognitive and Personality Assessment*
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy*
 - APD 1228H *Individual and Group Psychotherapy: Families and Couples*

Degree and Diploma Programs by Graduate Unit

Counselling or APD 1261H *Group Work in Counselling and Psychotherapy* (or an equivalent course)

- APD 1263H *Research Methods in Counselling and Clinical Psychology*
- 500 hours of practicum
- a master's thesis.
- **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 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 three years, up to a maximum of six years.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

9 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Doctor of Philosophy

The principal aim of this degree program is the development of research and theoretical knowledge in counselling and clinical psychology, assessment skills, and knowledge and training in professional issues. Students are expected to conduct advanced research and to develop professional knowledge and skills. Graduates will be prepared to assume a variety of positions in psychological teaching, research, and practice in universities, community settings and agencies offering psychological services, and in university or college counselling centres.

The Counselling and Clinical Psychology program offers both a full-time and flexible-time PhD, and progress in the program will be reviewed annually.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of

Degree and Diploma Programs by Graduate Unit

Applied Psychology and Human Development's additional admission requirements stated below.

Full-Time PhD

- 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), 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 Clinical and Counselling Psychology 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, applicants to the flexible-time PhD should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study.

Program Requirements

- The PhD program requires a minimum of 5.0 FCEs, including practicum APD 3217Y and internship APD 3268Y. See details below.
- **Practicum:** Complete a 500-hour practicum in conjunction with the doctoral practicum course APD 3217Y.
- **Internship:** 2,000 hours of internship (APD 3268Y). 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 Year 2 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.

Program Length

5 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Course List

APD 1201H	Personality Theories
APD 1202H	Theories and Techniques of Counselling
APD 1203Y	Practicum I: Interventions in Counselling Psychology
APD 1219H	Ethical Issues in Professional Practice in Psychology
APD 1263H	Seminar in Research Methods for MA Students
APD 1287H	Introduction to Applied Statistics
APD 1288H	Intermediate Statistics and Research Design
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
APD 3215H	Seminar in Counselling Psychology: Part I
APD 3217Y	Practicum II: Interventions in Counselling Psychology
APD 3218Y	Research Seminar in Counselling
APD 3224H	Individual Cognitive and Personality Assessment
APD 3225Y	Assessment and Diagnosis of Personality and Psychopathology
APD 3260H	Psychopathology and Diagnosis
APD 3268Y	PhD Internship

Graduate Faculty

Full Members

Bagby, Michael - BA, MA, PhD, PhD (**Graduate Chair**)

Fournier, Marc - BA, PhD

Ruocco, Anthony - BS, MSc, PhD (**Program Coordinator**)

Segal, Zindel - BA, MA, PhD

Zakzanis, Konstantine - BA, MA, PhD

Associate Members

Andersen, Judith - BSc, MA, PhD

Carlson, Erika Nicole - BS, MA, MA, PhD

Daskalakis, Zafiris Jeffrey - MD

Dere, Jessica - BA, MPsych, PhD

Dunlap, Hester - BHA, MEd, PhD

Erb, Suzanne - BSc, MA, PhD

Farb, Norman - BA, MA, PhD

Hendershot, Christian - PhD

Inzlicht, Michael - BSc, MSc, PhD

Ito Lee, Rutsuko - BA, PhD

Degree and Diploma Programs by Graduate Unit

Lee, Andy CH - BA, PhD
Rector, Neil - MA, MA
Remington, Gary - MD, PhD

Psychology

Faculty Affiliation

Arts and Science

Degree Programs

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. **Human Development**
 - Psychology, PhD
4. **Neuroscience**
 - Psychology, MA, PhD
5. **Sexual Diversity Studies**
 - Psychology, MA, PhD
6. **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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Psychology's additional admission requirements stated below.
- 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Psychology's additional admission requirements stated below.
- 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.
- 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 fulfil the PhD requirements; however, exemptions may be granted by the Graduate Director of the Department of Psychology.

Program Length

4 years full-time

Time Limit

6 years full-time

Course List

Not all courses are offered each year. For current offerings, consult the Coordinator of Graduate Studies.

PSY 1000H	Directed Studies
PSY 1200H, Y	Selected Topics in Psychology
PSY 1500H	Conceptual Bases of Psychology
PSY 2001H	Design of Experiments I
PSY 2002H	Design of Experiments II

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

Degree and Diploma Programs by Graduate Unit

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

Degree and Diploma Programs by Graduate Unit

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 ⁰	Research Project in Psychology
PSY 3001H	Professional Psychology (Credit/No Credit)
PSY 3002H	Teaching Practicum (Credit/No Credit)
PSY 4000H ⁰	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 4706H	Human Brain Neuroanatomy
PSY 4710H	Practicum in Applied Psychology (Credit/ No Credit)
PSY 4712H	Practicum in Psychology: Special Topics (Credit/No Credit)
PSY 4720H, Y ⁺	Internship in Applied Psychology (Credit/ No Credit)

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.

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

Graduate Faculty

Full Members

Alain, Claude - BA, MA, PhD
 Andersen, Judith - BSc, MA, PhD
 Anderson, Adam - BA, PhD
 Anderson, Nicole - BA, MA, PhD
 Bagby, Michael - BA, MA, PhD, PhD
 Barensse, Morgan - BA, PhD, CRC
 Bernhardt-Walther, Dirk - BSc, MPH, PhD
 Bors, Douglas - BA, MA, PhD
 Buchsbaum, Bradley - BSc, PhD
 Buchsbaum, Daphna - AB, MA, MSc, PhD
 Campos, Jennifer - BA, PhD
 Carlson, Erika Nicole - BS, MA, MA, PhD
 Chambers, Craig - BA, MA, MA, PhD
 Chasteen, Alison - BA, PhD
 Cohn, Melanie - BA, MA, PhD
 Cote, Stephane - BSc, MA, PhD
 Cree, George Scott - BA, MA, PhD
 Cunningham, John - BSc, MA, PhD
 Cunningham, William - BA, MPH, MS, MA, PhD
 Cupchik, Gerald Chaim - BA, MA, PhD
 Daneman, Meredyth - BA, MA, PhD
 De Rosa, Eve - BA, PhD
 Dion, Karen - BA, PhD
 Doesburg, Sam - BSc, PhD
 Duncan, Katherine - BS, PhD
 Einstein, Gillian - AB, PhD
 Erb, Suzanne - BSc, MA, PhD (**Graduate Coordinator**)
 Farb, Norman - BA, MA, PhD
 Ferber, Susanne - MPsy, PhD
 Fleming, Alison - BS, PhD
 Fletcher, Paul - BSc, DPhil
 Fournier, Marc - BA, PhD
 Frankland, Paul - MA, PhD
 Gerlai, Robert - MSc, PhD
 Gilboa, Asaf - BA, MA, PhD
 Grady, Cheryl - BA, MA, PhD
 Haley, David - BA, MA, PhD
 Hasher, Lynn - AB, PhD
 Helwig, Charles - BA, PhD
 Hendershot, Christian - PhD
 Holmes, Melissa - BA, MA, PhD
 Honey, Christopher - BSc, PhD

Degree and Diploma Programs by Graduate Unit

Inbar, Yoel - PhD
 Inzlicht, Michael - BSc, MSc, PhD
 Ito Lee, Rutsuko - BA, PhD
 Jenkins, Jennifer - BA, MA, PhD
 Johnson, Elizabeth - BA, MA, PhD
 Joordens, Steve - BA, MA, PhD
 Josselyn, Sheena - MA, PhD
 Kim, Junchul - BSc, MSc, PhD
 Kraemer, Gary - BA, BS, MS, PhD
 Latham, Gary - BA, MS, PhD
 Lee, Andy CH - BA, PhD
 Leonardelli, Geoffrey - BA, MA, PhD
 Levine, Brian - BA, MA, PhD
 Lockwood, Penelope - BA, MA, PhD
 Mabbott, Donald - PhD
 MacDonald, Geoffrey - BA, PhD (**Associate Graduate Director**)
 Malti, Tina - MA, MA, PhD, PhD
 Martin, Loren - BSc, MSc, PhD
 McAndrews, Mary Patricia - BSc, MA, PhD
 McIntosh, Anthony Randal - BSc, MSc, PhD
 Meltzer, Jed - BSc, PhD
 Monks, Ashley - BSc, MA, PhD
 Moscovitch, Morris - BSc, MA, PhD, Dr. Max and
 Gianna Glassman Chair in Neuropsychology (**Graduate Chair**)
 Murphy, Kelly - BSc, MA, PhD
 Nestor, Adrian R. - BPhil, MSc, ScD
 Niemeier, Matthias - MA, PhD
 Nobrega, Jose - PhD
 Page-Gould, Elizabeth - BS, PhD
 Paus, Tomas - MD, PhD
 Peterson, Jordan - BA, MA, PhD
 Petit, Ted - BS, MA, PhD
 Pichora-Fuller, Margaret Kathleen - AB, MS, DPhil
 Plaks, Jason - BA, MA, MPH, PhD
 Pratt, Jay - BA, MS, PhD
 Ralph, Martin - BSc, PhD
 Reingold, Eyal - BA, MA, PhD
 Rovet, Joanne - BSc, PhD
 Ruocco, Anthony Charles - BS, MSc, PhD
 Ryan, Jennifer - BS, PhD, CRC
 Schellenberg, Glenn - BSc, PhD
 Schimmack, Ulrich - BA, MA, DPhil
 Schmuckler, Mark - BA, PhD
 Schneider, Bruce - BA, PhD
 Smith, Marylou - BSc, MSc, PhD
 Smyth, Ronald - BA, MSc, PhD
 Stuss, Donald - BPhil, BA, MA, PhD
 Tafarodi, Romin - BA, PhD
 Taylor, Margot - BA, MA, PhD
 Uliaszek, Amanda Ann - BA, MA, PhD
 van Lieshout, Pascal - MA, MA, PhD
 Vartanian, Oshin - BSc, PhD
 Welsh, Timothy - BPHE, MSc, PhD
 Winocur, Gordon - BA, MA, PhD
 Wong, Ming F Agnes - DOMS, MD, PhD
 Yeomans, John - BA, PhD
 Zakzanis, Konstantine - BA, MA, PhD

Zovkic, Iva - BA, MA, PhD

Members Emeriti

Craik, Fergus - BSc, PhD
 Freedman, Jonathan - AB, PhD
 Grusec, Joan - BA, PhD
 Herman, C Peter - BA, PhD
 Kennedy, John - BSc, MSc, PhD
 Lockhart, Robert - BA, MA, PhD
 Oatley, Keith - BA, PhD
 Pliner, Patricia - BSc, PhD
 Polivy, Janet - BS, MA, PhD
 Shettleworth, Sara - BA, MA, PhD
 Smith, Marilyn - BA, PhD
 Spence, Ian - MA, MA, PhD
 Trehub, Sandra - BComm, MA, PhD
 Tulving, Endel - BA, MA, PhD
 Walters, Gary - BA, PhD

Public Health Sciences

Faculty Affiliation

Public Health

Degree Programs

Public Health Sciences

MPH	<p><i>Fields:</i> Epidemiology Family and Community Medicine Health Promotion (Social and Behavioural Health Sciences) Nutrition and Dietetics Occupational and Environmental Health</p> <p><i>Emphasis (optional):</i> Global Public Health</p>
MSc	<p><i>Field:</i> Biostatistics</p> <p><i>Emphasis (optional):</i> Global Public Health</p>
PhD	<p><i>Fields:</i> Biostatistics Epidemiology Occupational and Environmental Health Social and Behavioural Health Sciences</p>

Bioethics

MHSc

Community Health

MScCH	<p><i>Fields:</i> Addictions and Mental Health Family and Community Medicine Health Practitioner and Teacher Education Occupational Health Care Wound Prevention and Care</p> <p><i>Emphasis (optional):</i> Global Public Health</p>
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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. **Community Development**
 - Public Health Sciences, MPH
6. **Environment and Health**
 - Community Health, MScCH
 - Public Health Sciences, MPH, PhD
7. **Global Health**
 - Public Health Sciences, PhD
8. **Health Care, Technology, and Place**
 - Public Health Sciences, PhD
9. **Health Services and Policy Research**
 - Public Health Sciences, PhD
10. **Human Development**
 - Public Health Sciences, PhD
11. **Public Health Policy**
 - Public Health Sciences, MPH, MSc, PhD
12. **Resuscitation Sciences**
 - Community Health, MScCH
 - Public Health Sciences, MPH, MSc, PhD
13. **Sexual Diversity Studies**
 - Public Health Sciences, MPH, MSc, PhD
14. **Women and Gender Studies**
 - Public Health Sciences, MPH, PhD
15. **Women's Health**
 - Public Health Sciences, MPH, PhD

Overview

The Dalla Lana School of Public Health enrolls more than 400 graduate students in its master's and doctoral degree programs. In addition, the school has more than 40 postgraduate students in its two Royal College Residency programs: Public Health and Preventive 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, and Bloomberg Faculty of Nursing.

The Graduate Department of Public Health Sciences at the Dalla Lana School of Public Health offers five graduate degrees, available both full-time and part-time. With the exception of the Bioethics program, applicants are strongly advised to have some background in statistics and quantitative methods. In addition, field and employment experience are considered, especially for the Master of Public Health (MPH) degree. Documented interest and experience in global health is required for participation in the Global Public Health emphasis. Further information is available on the website.

The **Master of Public Health (MPH)** degree is designed to prepare the next generation of public health professionals and is aimed at students interested in professional and/or research careers in the community, academic, public, or private sectors. Five fields are offered:

- Epidemiology
- Family and Community Medicine
- Health Promotion (Social and Behavioural Health Sciences)
- Nutrition and Dietetics
- Occupational and Environmental Health

The **Master of Science** (MSc) degree is designed for students interested in research and academic careers involving the development and application of statistical methodology to further our understanding of data arising in the health sciences. One field is offered:

- Biostatistics

The **Master of Health Science** (MHSc) in Bioethics is a two-year course-based program with no thesis requirement. It is conducted in modular format to allow high-achieving professionals to earn a master's degree without interrupting their careers. The program's interactive, problem-based learning approach provides students with knowledge and skills that can be applied to a variety of health, health care, and health research contexts. Expert faculty and guest lecturers help students bring theory and practice together to address real-world ethical challenges. Students interested in a research-stream program should consider the Collaborative Program in Bioethics.

The **Master of Science in Community Health** (MScCH) degree is an innovative program designed to meet the needs of experienced health professionals who wish to enhance their knowledge and skills in public health. It is intended for practising health professionals and/or individuals who can demonstrate significant experience in the health care field. Five fields are offered:

- Addictions and Mental Health
- Family and Community Medicine
- Health Practitioner Teacher Education
- Occupational Health Care
- Wound Prevention and Care

The **Doctor of Philosophy** (PhD) degree prepares students for research and academic careers. Fieldwork and research enhance theoretical studies and expose students to the full breadth and depth of their public health science disciplines. Fields include:

- Biostatistics
- Epidemiology
- Occupational and Environmental Health
- Social and Behavioural Health Sciences

The PhD program may be completed on a full-time or flexible-time basis.

Contact and Address

Public Health Sciences and Community Health Programs

Web: www.dlsph.utoronto.ca
Email: grad.dlsph@utoronto.ca
Telephone: (416) 978-2058
Fax: (416) 978-1883

Dalla Lana School of Public Health
Graduate Department of Public Health Sciences
University of Toronto
Room 620, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Bioethics Program

Web: <http://jcb.utoronto.ca/education/mhsc.shtml>
Email: bioethicsprogasst.dlsph@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

Degree Programs Public Health Sciences

Master of Public Health

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Dalla Lana School's additional admission requirements stated below.
- 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 public health sciences subject and at least 1.0 FCE is a field practicum.
 - Full-time students, depending on the area of specialization, normally require between 16 and 24 months to complete the program, including time spent in field practica. Specific program requirements, course sequences, and options vary by field of specialization and are fully explained on the website.

Degree and Diploma Programs by Graduate Unit

- Part-time students have a maximum of six years to complete the program.
- Students in the MPH program have the option of completing an emphasis in Global Public Health as part of their degree program. Please see details near the end of this entry.

Program Length

4 sessions full-time (typical registration sequence: F/W/S/F);
12 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Advanced-Standing Option, Nutrition and Dietetics Field

Minimum Admission Requirements

- Applicants to the Nutrition and Dietetics field may be eligible to be considered for the advanced-standing option with the following minimum admission requirements:
- Appropriate 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. Those planning to practise in Canada must be eligible for membership in a provincial regulatory body of dietetics.
- Five years of professional work experience in clinical, community, administrative, or public health dietetics.

Program Requirements

- The advanced-standing option of the MPH Nutrition and Dietetics field is a coursework-only program option 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.

Program Length

3 sessions full-time advanced-standing option (typical registration sequence: F/W/S);
9 sessions part-time advanced-standing option

Time Limit

3 years full-time;
6 years part-time

Master of Science

Field: Biostatistics

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Dalla Lana School's additional admission requirements stated below.
- Appropriate bachelor's degree from a recognized university with a minimum mid-B average in the final year. Please consult the website for full details.

Program Requirements

Two options are available:

- Thesis option comprising 4.0 full-course equivalents (FCEs) and a thesis.
- Coursework-only option comprising 5.0 FCEs.

Thesis MSc

- Completion of 4.0 FCEs as follows:
 - CHL 5004H, CHL 5207Y, CHL 5209H, CHL 5210H, and CHL 5250H;
 - CHL 5226H or STA 2112H (*Mathematical Statistics I*); and
 - CHL 5223H or STA 2212H (*Mathematical Statistics II*).
- A thesis written under the supervision of a thesis committee. An oral defence of the thesis is required.

Coursework-Only MSc

- Completion of 5.0 FCEs as follows:
 - CHL 5004H, CHL 5207Y, CHL 5209H, CHL 5210H, and CHL 5250H;
 - CHL 5226H or STA 2112H (*Mathematical Statistics I*);
 - CHL 5223H or STA 2212H (*Mathematical Statistics II*); and
 - 1.0 FCE in electives from an approved list of courses.

Students in the MSc program have the option of completing an emphasis in Global Public Health as part of their degree program. Please see details near the end of this entry.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
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.

Applicants must also satisfy the Dalla Lana School's additional admission requirements stated below.

- 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 field and are related to the student's knowledge of the field. Consult the website for detailed course requirements for each field.
- 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. Details for each field are specified on the website.
- Writing of a PhD thesis under the supervision of an approved thesis committee (supervisor plus two additional faculty members).
- A final oral defence of the thesis before an examination committee approved 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 obligations. Applicants to the flexible-time PhD program option must demonstrate that they are practicing professionals.
- 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.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Bioethics

Master of Health Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Dalla Lana School's additional admission requirements stated below.
- 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 with a minimum mid-B average in the final year. Applicants from other disciplines are 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 (CV)
 - 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 March 1 for domestic and international applicants. 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 24 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 allows students to apply the knowledge and skills gained in this program.
- Courses as outlined below.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Required Courses

Courses are restricted to students officially enrolled in the MHSc in Bioethics and the Collaborative Program in Bioethics, except where noted. All courses are

Degree and Diploma Programs by Graduate Unit

understood as "or equivalent" in order to accommodate the diverse background education and training of applicants.

Courses in Year 1 of the program cover key topic areas in bioethics, and concentrate on providing students with the theoretical foundations of the field in terms of legal frameworks, research methods, philosophical approaches, and resource allocation ethics. The application of theory to practice in clinical, organizational, and research settings is emphasized.

Courses in Year 2 of the program give students the opportunity to further develop core knowledge (e.g., in research ethics, organizational and health systems ethics) while adding more core skill competencies, such as teaching bioethics, developing a bioethics curriculum, and contributing to bioethics scholarship (including the preparation of a paper in publishable form covering an area or issue of the student's choice). Based on their individual interests in the areas and activities of bioethics, students complete a mentored applied learning course (practicum), and a practical bioethics course that aims to support the student in preparing a "capstone" project that, ideally, builds on the practicum experience and the core knowledge and skills gained throughout the MHSc program.

Year 1

CHL 3001Y	Core Topics in Bioethics
CHL 3003Y	Empirical Approaches in Bioethics
CHL 3005H	Legal Approaches to Bioethics
HAD 5771H	Resource Allocation Ethics
PHL 2146Y	Topics in Bioethics

Year 2

CHL 3051Y	Research Ethics
CHL 3052H	Practical Bioethics (capstone course)
CHL 3002Y	Teaching Bioethics
CHL 3004Y	Organizational and Health Systems Ethics
CHL 3006Y	Writing in Bioethics
CHL 3008Y ⁰	Applied Learning in Bioethic (practicum)

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

Community Health

Master of Science in Community Health

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.

Applicants must also satisfy the Dalla Lana School's additional admission requirements stated below.

- A bachelor's degree from a recognized university 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 a public health, community, or clinical practitioner.
- Some fields (i.e., Family and Community Medicine and Wound Prevention and Care) require appropriate certification/licensure in a regulated health profession and may require a valid license to practise in Canada or the student's home jurisdiction.

Program Requirements

- The MScCH is a coursework-only program which requires the completion of 5.0 FCEs as follows:
 - 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.
- 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), including the required courses for the field, and with the approval of the department.
- Students in the MScCH program have the option of completing an emphasis in Global Public Health as part of their degree program. Please see details near the end of this entry.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

9 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Emphasis: Global Public Health (MPH, MSc, MScCH)

Students must successfully complete within existing program requirements:

- CHL 5700H *Global Public Health* (0.5 full-course equivalent [FCE]);
- At least one elective course in global health (0.5 FCE);

- One practicum placement, or equivalent, with a global health focus.

Course List

Core Course

CHL 5004H	Introduction to Public Health Sciences
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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	Survey Design and Social Research Methods in Public Health
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	Analysis of Correlated Data
CHL 5223H	Applied Bayesian Methods
CHL 5224H	Statistical Genetics
CHL 5225H	Advanced Statistical Methods for Clinical Trials
CHL 5226H	Mathematical Foundations of Biostatistics
CHL 5250H ⁺	Special Topics in Biostatistics

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

Epidemiology

CHL 5401H	Epidemiologic Methods I
CHL 5402H	Epidemiologic Methods II
CHL 5403H	Epidemiology of Non-Communicable Diseases
CHL 5404H	Research Methods I

Degree and Diploma Programs by Graduate Unit

CHL 5405H	Health Trends and Surveillance
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, Prevention, and Control
CHL 5413H	Public Health Sanitation
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 5423H ⁰	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 5427H	Fundamentals of Research Ethics
CHL 5430H	Fundamentals of Genetic Epidemiology
JRH 1000H	Introduction to Pharmacoepidemiology

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

Family Medicine

CHL 5601H	Appraising and Applying Evidence to Assist Clinical Decision-Making
CHL 5602H	Working with Families in Family Medicine
CHL 5603Y ⁰	Social, Political, and Scientific Issues in Family Medicine

Degree and Diploma Programs by Graduate Unit

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 5613H	Leading Improvement in the Quality of Health Care for Community Populations
CHL 5614H	Curriculum Foundations in Health Practitioner Field-Based Education
CHL 5615H	Assessment and Evaluation Issues in Health Practitioner Field-Based Education
CHL 5618H	Family Medicine and Primary Care in the Global Health Context
CHL 5623H	Practical Management Concepts and Cases in Leading Small Health Organizations
CHL 5630Y	Wound Prevention and Care

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

Global Health

CHL 5700H	Global Public Health
CHL 5701H ⁰	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

CHL 5706H	Women and Women's Health in Countries in Conflict
CHL 5707H	Health: An Engine for the Journey to Peace

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

Health Promotion

CHL 5801H	Health Promotion 1
CHL 5803H	Health Promotion 2
CHL 5804H	Health Behaviour Change
CHL 5805H	Critical Issues in Health Promotion Practice
CHL 5806H ⁺	Health Promotion Field Research
JXP 5807H	Health Communications

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

Nutrition and Dietetics

Courses offered by the Department of Nutritional Sciences.

NFS 1201H	Public Health Nutrition
NFS 1208H	Field Observation and Nutrition Program Laboratory I
NFS 1209H	Field Observation and Nutrition Program Laboratory II
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

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

Public Health Policy

CHL 5300H	Public Health Policy
CHL 5308H	Tools and Approaches for Public Health Policy Analysis and Evaluation
CHL 5309H	Advanced Analysis of Topical Issues in Public Health Policy

Social and Behavioural Health Sciences

CHL 5101H	Social Theory and Health
CHL 5102H	Social and Political Forces in Health
CHL 5105H	Social Determinants of Health
CHL 5109H	Gender and Health
CHL 5110H	Theory and Practice of Program Evaluation
CHL 5111H	Qualitative Research Methods
CHL 5112H	Community Development in Health
CHL 5113H	Migration and Health
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 5126H	Building Community Resilience

Degree and Diploma Programs by Graduate Unit

CHL 5127H	Conceptual and Methodological Issues in Social Determinants of Health
CHL 5150H	Data Collection Methods for Research and Evaluation Projects
JRH 5124H	Public Health Ethics

Practica and Related Courses

CHL 5620Y ⁰	Practicum in Family Community Medicine (Credit/No Credit)
CHL 5621H ⁺	Extension to Practicum in Family Community Medicine (Credit/No Credit)
CHL 5690H ⁰	MScCH Required Practicum (Credit/No Credit)
CHL 5691H ⁰	MScCH Optional Practicum (Credit/No Credit)
CHL 6010Y ⁺	Required MPH Practicum (Credit/No Credit)
CHL 6011H ⁺	Required Practicum Extension (Credit/No Credit)
CHL 6012Y ⁺	Long Extension to Required Practicum (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)

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.

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

Special Topics Courses

CHL 8001H	Selected Topics in Public Health Issues
CHL 8002H	Selected Topics in Public Health: Methods and Approaches to Research and Practice

Degree and Diploma Programs by Graduate Unit

Collaborative Program Courses

Addiction Studies

AEC 1291H	Addictive Behaviours: Approaches to Assessment and Intervention
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
PAS 3700H	Multidisciplinary Aspects of Addiction Studies
PAS 3701H	Advanced Research Issues in Addictions
PSY 2703H	The Psychology of Addictions
SOC 6123H	Sociology of Addiction
SWK 4616H	Drug Dependencies: Interventive Approaches

Aging, Palliative and Supportive Care Across 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	Principles of Aging
AGE 2500H	Research Topics in Aging and the Life Course
AGE 3000H	Advanced Research Seminar in Aging and the Life Course

Community Development

UCS 1000H	Community Development
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Graduate Faculty

Full Members

Badley, Elizabeth - BSc, MSc, PhD
Bhutta, Zulfiqar - MBBS, PhD
Bigelow, Philip - BS, MHSc, PhD
Bondy, Susan - BA, MSc, PhD

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Colantonio, Angela - BA, BSc(OT), MHSc, PhD
Cole, Donald - MSc, MD
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Deber, Raisa - BS, MS, PhD
Du Mont, Janice - BA, MEd, EdD
Einstein, Gillian - AB, PhD
Escobar, Michael - BS, PhD
Ferrence, Roberta - BA, MA, PhD
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Harris, Shelley - BSc, MSc, PhD
Henry, David - MD
Holness, D Linn - MHSc, MD
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Hu, Howard - BSc, MPH, MS, MD, ScD (**Dean**)
Jaglal, Susan - BSc, MSc, PhD
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Kreiger, Nancy - BA, MPH, PhD
Kwong, Jeff - BSc, MSc, MD
Levinson, Wendy - BSc, MD
Liu, Geoffrey - BSc, MSc, MD
Lou, Wen-Yi Wendy - DPhil
MacNeill, Margaret - BPHE, MA, PhD
Marrett, Loraine - BMath, PhD
Mcdonough, Peggy - BSN, BSc, MSc, PhD
McLaughlin, John Ross - BSc, MSc, PhD
McVey, Gail - BA, MA, PhD
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Naylor, C. David - MD, PhD
Noyek, Arnold - MD
O'Campo, Patricia - BSc, PhD
Orbinski, James - BSc, MA, MD
Poland, Blake - BA, PhD
Pole, Jason - BSc, MSc, PhD
Pullenayegum, Eleanor - BM, PhD
Purdham, James - BSc, PhD
Rehm, Jurgen - PhD
Renwick, Rebecca - DipOT, BA, PhD
Rhodes, Anne - BSc, MSc, PhD
Rodin, Gary - BSc, MD
Rosella, Laura Christina Antonia - BSc, MHSc, MHSc, PhD, DPhil

Degree and Diploma Programs by Graduate Unit

Rosser, Walter - MD
 Sakinofsky, Isaac - DPM, MBCHB, MD
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 Scott, James - BSc, PhD
 Scott, Jeremy - PhD, DPhil
 Selby, Peter - MHSc, MBBS
 Siegel, Jeffrey Alexander - BS, MS, PhD
 Skinner, Harvey - BA, MA, PhD
 Stafford, James - BS, MS, PhD
 Strike, Carol - BA, MSc, PhD, PhD
 Strug, Lisa - BS, BA, SM, PhD
 Sullivan, Frank - MD, PhD
 Sun, Lei - BS, PhD
 To, Teresa - BSc, MSc, PhD
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 Upshur, Ross Edward - BA, MA, MSc, MD
 Wakefield, Sarah - BA, MA, PhD
 Willan, Andrew - BEd, BA, MSc, PhD
 Zlotkin, Stanley - BSc, MD, PhD

Members Emeriti

Andrews, David - BSc, MSc, PhD
 Ashley, Mary Jane - DPH, MSc, MD
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 Chalin Clark, Catherine - BSN, MA, MDiv, PhD, RN
 Chipman, Mary - BSc, MA
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 Kelner, Merrijoy - MA, PhD
 Leriche, William - BSc, MPH, MB, MD
 Marshall, Victor - BA, MA, PhD
 Miller, Anthony - BA, MA, MB, BChir, MD
 Millson, Margaret - BSc, MHSc, MD
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 Robertson, Ann - BSc, MSc, PhD
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 Young, Kue - DrMed, PhD

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 Ahmad, Farah - MPH, MBBS, PhD
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 Arrandale, Victoria - BSc, MSc, PhD
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 Burchell, Ann - BSc, MSc, PhD
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 Chen, Hong - BSc, MSc, MSc, PhD
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 Doubleday, Nancy C. - BEd, BSc, LLB, MES, PhD
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 Ellison, Philip - MBA, MD
 Ezezika, Obidimma - BSc, PhD
 Farkouh, Michael - MSc, MD
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 Gardner, Sandra - BSc, MMATH, PhD
 Giesbrecht, Norman - BA, MA, PhD
 Glover Takahashi, Susan - BSc, MA, EdD
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 Hu, Pingzhao - PhD
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 Kosny, Agnieszka - BA, MA, PhD
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 Lawless, Jerald - BSc, MSc, PhD
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 Lee, Colin - BSc, MSc, MD
 Lee, Julia - MPH, DrMed
 Leslie, Karen - BSc, MEd, MD
 Macdonald, Liane - BA, MSc, MD
 MacNeill, Heather - BSc, MD
 Mah, Catherine - MD, PhD
 Makokis, James - BSc, MHSc, MD
 Manuel, Douglas - DrMed
 Martin, Dawn - BA, MA
 Matheson, Flora - BA, MA, PhD
 Mirea, Olguta Lucia - BSc, BEd, MSc, PhD
 Moineddin, Rahim - BSc, MSc, MSc, PhD

Degree and Diploma Programs by Graduate Unit

Morisano, Dominique - PhD
Nisenbaum, Rosane - BSc, MSc, PhD
Norman, Cameron - BA, MA, PhD
Ofner, Marianna - BScN, MHSc, PhD
Parthimos, Margie - BSc, MSc, PhD
Patra, Jayadeep - BA, MPsy, MPsy, PhD
Pimlott, Nicholas - BSc, MD, PhD
Pintilie, Melania - BM, MSc
Popova, Svetlana - MPH, MSD, DSW, MedScD
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Ratnapalan, Savithiri - MEd, MBBS
Richardson, Denyse - MEd, MD
Roerecke, Michael - MSc, PhD
Rudman, Deborah - BSc(OT), MSc, PhD
Saarela, Olli Samuli - DPhil
Sanches, Marcos Rogerio - MA
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Sheppard, Amanda Joan - BSc, MHSc, DPhil
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Silva, Diego - BA, MA, PhD
Sutradhar, Rinku - BSc, MMath, PhD
Thein, Hla Hla - MPH, PhD
Thorpe, Kevin - MMath
Tricco, Andrea - MSc, PhD
Turner, Nigel - BA, MA, PhD
Tyler, Ingrid - BSc, MEd, MHSc, MD
Urbanoski, Karen - BSc, MSc, PhD
Walker, Jennifer D - BSc, PhD
Wang, Lisa - BEng, MSc
Wickens, Christine - BSc, MA, PhD
Yu, Catherine - MHSc, MD
Yuan, Lilian - MSc, MD, DHA

Public Policy and Governance

Faculty Affiliation

Arts and Science

Degree Programs

Public Policy

MPP

Combined Degree Programs

Law, JD / MPP

Collaborative Programs

The following collaborative programs are available to students in the participating degree programs listed below:

1. **Asia-Pacific Studies**
 - Public Policy, MPP
2. **Environmental Studies**
 - Public Policy, MPP
3. **Ethnic and Pluralism Studies**
 - Public Policy, MPP
4. **Public Health Policy**
 - Public Policy, MPP
5. **Sexual Diversity Studies**
 - Public Policy, MPP

Overview

The School of Public Policy and Governance is a professional school offering a two-year **Master of Public Policy** (MPP) degree. The program 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 policymaking 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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School of Public Policy and Governance

University of Toronto

Canadiana Gallery

Third Floor, 14 Queen's Park Crescent West

Toronto, Ontario M5S 3K9

Canada

Degree Programs Public Policy

Master of Public Policy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the School of Public Policy and Governance's additional admission requirements stated below.
- An appropriate bachelor's degree with an overall standing equivalent to at least a University of Toronto B+ in the final year.
- The 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 6.5 required core FCEs (see list of required core courses below);
- 1.5 FCEs from the list of electives offered by University-wide graduate units, one of which must be a PPG course;
- PPG 2006Y (a mandatory internship) 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.

Program Length

5 sessions full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years full-time

Degree and Diploma Programs by Graduate Unit

Combined Degree Program: Law, Juris Doctor / Master of Public Policy

For full details, see the Law, Juris Doctor / Master of Public Policy entry in the Combined Degree Programs section of this calendar.

Course List

Required Core Courses

PPG 1000H	Governance and Institutions
PPG 1001H	The Policy Process
PPG 1002H	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 1008H	Program Evaluation for Public Policy
PPG 2001H	Legal Analysis of Public Policy
PPG 2002H	Topics in Applied Economics for Public Policy
PPG 2003H	Capstone Course: Integrating Issues in Public Policy
PPG 2008H	Comparative Public Policy and Transnational Forces

Choose one of:

PPG 2011H	Ethics and the Public Interest
PPG 2022H	Moral Foundations of Public Policy

Elective Courses

Offered by the School of Public Policy and Governance:

PPG 2010H	Panel Data Methods for Public Policy Analysis
PPG 2012H	Topics in Public Policy
PPG 2013H	Topics in Public Policy I
PPG 2014H	Topics in Public Policy II
PPG 2015H	Topics in Public Policy III
PPG 2017H	Topics in Public Policy: Urban Policy
PPG 2018H	The Role of Government
PPG 2020H	MPP Reading Course
PPG 2021H	Priority Topics in Public Administration

Offered by the Faculty of Law:

LAW 7030H (undergraduate equivalent: LAW 281H)	Issues in Aboriginal Law and Policy
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Internship

PPG 2006Y	MPP Internship
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Graduate Faculty

Full Members

Anand, Anita - BA, LLB, MA, LLM
Baker, Michael - BComm, MA, PhD
Benjamin, Dwayne - BSc, MA, PhD
Cameron, David - PhD, , FRSC
Carter, Michael - BM, MMath, 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, CRC
Heath, Joseph - BA, MA, PhD, FRSC
Karney, Bryan - BSc, MEng, PhD, PEng
MacLean, Heather L - BAsC, MASc, MBA, PhD, PEng
Miller, Eric - BAsC, MASc, PhD
Nevitte, Neil - BA, MA, PhD, FRSC
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 - BAMus, LLB, SJD
Skogstad, Grace - DrRerPol
Smart, Michael - BA, BA, PhD
Stabile, Mark - BA, MA, PhD
Stein, Janice - BA, MA, PhD, OC, FRSC
Triadafilopoulos, Phil (Triadafilos) - BA, MA, PhD
White, Graham - BA, MA, PhD
White, Linda - BA, MA, PhD (**Interim Director**)
Williams, Melissa - AB, AM, PhD
Wolfe, David - BA, MA, PhD
Wong, Joseph - BA, MA, PhD, CRC

Members Emeriti

Donnelly, Michael - BSc, MA, PhD
Stefanovic, Ingrid - BA, MA, PhD

Associate Members

Craft, Jonathan - MA, PhD
Dungan, D Peter - BA, MA, PhD
Hall, Jonathan - BA, PhD
Slack, Enid - PhD

Rehabilitation Sciences

Faculty Affiliation

Medicine

Degree Programs

Rehabilitation Science

MSc

PhD

Speech-Language Pathology

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
 - Speech-Language Pathology, 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, PhD
7. **Health Services and Policy Research**
 - Rehabilitation Science, MSc
8. **Musculoskeletal Sciences**
 - Rehabilitation Science, MSc, PhD
9. **Neuroscience**
 - Rehabilitation Science, MSc, PhD
10. **Resuscitation Sciences**
 - Rehabilitation Science, MSc, PhD
11. **Women's Health**
 - Rehabilitation Science, MSc, PhD
12. **Workplace Learning and Social Change**
 - Rehabilitation Science, MSc, PhD

Overview

Rehabilitation sciences is a multidisciplinary, integrated science dedicated to the study of human function and participation and its relationship to health 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,

Degree and Diploma Programs by Graduate Unit

interventions, and policies to prevent, reverse, or minimize impairments, enable activity, and facilitate participation.

The Rehabilitation Sciences Institute (RSI) offers graduate programs in rehabilitation sciences and speech-language pathology leading to the degrees of **Master of Science** and **Doctor of Philosophy**. The academic activities of RSI students cover the full breadth of rehabilitation sciences over 100 RSI faculty are distributed throughout the University of Toronto, including teaching hospitals and research institutes. There are ten research foci:

- Cognitive and Neurorehabilitation Science
- Global Disability and Rehabilitation Studies
- Human Movement Science
- Occupational Science
- Practice Science
- Rehabilitation Health Services Studies
- Rehabilitation Technology Sciences
- Social Rehabilitation Sciences
- Speech, Language, and Hearing Science
- Swallowing Science

Contact and Address

Web: www.rsi.utoronto.ca

Email: rsi.admin@utoronto.ca

Telephone: (416) 978-0300

Fax: (416) 946-8762

Rehabilitation Sciences Institute
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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Rehabilitation Sciences Institute's additional admission requirements stated below.
- 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:

Degree and Diploma Programs by Graduate Unit

- **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
- **Certificate of Proficiency in English (COPE):** see SGS General Regulations
- **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.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);
15 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. Applicants must also satisfy the Rehabilitation Sciences Institute's additional admission requirements stated below.
- Appropriate University of Toronto MSc degree, or an 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
- **Certificate of Proficiency in English (COPE):** see SGS General Regulations
- **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
 - an advanced research methods course
 - REH 3001Y *Advanced Rehabilitation Presentation and Proceedings*.
- A comprehensive examination, with written and oral components, to be taken in the first 18 months of the program (2.5 years for direct-entry students).
- Complete and defend a thesis.
- Students may be required to take extra courses in addition to the degree requirements listed above.
- Students are expected to be on campus and participating full-time until all program requirements are completed.

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*.

Program Length

4 years full-time; 5 years direct-entry

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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 2001Y ⁰	Rehabilitation Presentations and Proceedings (Credit/No Credit)
REH 3001Y ⁰	Advanced Rehabilitation Presentation and Proceedings (Credit/No Credit)
REH 3100H	Advanced Rehabilitation Research Issues
REH 3120H	International Issues in Disability and Rehabilitation
REH 3140H	Disability, Embodiment, and Voice in the Rehabilitation Science Context
REH 3301H	Rehabilitation Leadership: Transforming Practice
REH 3302H	Determinants of Rehabilitation Practice
REH 3303H	Rehabilitation Clinical Practicum
REH 3400H	Therapeutic Exercise in Rehabilitation: Emerging Trends and Research Approaches
REH 3500H	Gender, Work, and Health
REH 5100H	Introduction to Cognitive Rehabilitation Neuroscience I: Basic Science to Clinical Applications
REH 5102H	Cognitive Rehabilitation Neuroscience II

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

Speech-Language Pathology

Master of Science

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Rehabilitation Sciences Institute's additional admission requirements stated below.
- An appropriate bachelor's degree in speech-language pathology or a related discipline, with a minimum of a mid-B in the final year of the program.
- 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 proficiency 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 Proficiency.

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 supervisory committee for a reclassification examination which, when passed, allows them transfer into 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 Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Rehabilitation Sciences Institute's additional admission requirements stated below.
- Normally, applicants are expected to have completed an 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 proficiency 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, 4.1.10 English-Language Proficiency.

Program Requirements

- Course requirements are determined by the student's supervisory committee and consist of a minimum of 2.0 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 either a full research proposal or a systematic review paper on a topic chosen by the student and the supervisory committee. Students who are given a fail at the first meeting will have the opportunity to schedule a second meeting in which they will defend a revised version of the original paper as per suggestions made by the comprehensive exam committee. If the student fails the second attempt, he/she will no

Degree and Diploma Programs by Graduate Unit

longer be allowed to continue with the program. 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.

Program Length

4 years full-time; 5 years transfer-from-master's

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 ⁰	Reading Seminar 1
SLP 3004H,Y	Reading Seminar 2
SLP 4000H ⁰	Reading Seminar 1
SLP 4001H	Philosophical and Theoretical Foundations of Communication Sciences
SLP 4007H,Y	Reading Seminar 2

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

Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
 Badley, Elizabeth - BSc, MSc, PhD
 Bartel, Lee - BA, BMus, MEd, PhD
 Berg, Katherine - BPT, BSc(PT), MSc, PhD (**Graduate Chair**)
 Black, Sandra - BSc, MD
 Bressmann, Tim - MPH, 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
 De Nil, Luc - MSc, PhD
 Eriks-Brophy, Alice - BEd, BA, MSc, PhD
 Fernie, Geoffrey - BSc, PhD
 Gibson, Barbara - MSc, BMR(PT), PhD

Girolametto, Luigi - BA, MSc, PhD
 Green, Robin - PhD
 Jaglal, Susan - BSc, MSc, PhD
 Keightley, Michelle - BSc, MA, PhD
 Kirsh, Bonnie - BSc(OT), MEd, PhD
 Koeberle, Paulo - BS, PhD
 Macarthur, Colin - BS, MSc, MBCHB, PhD
 Mainela-Arnold, Elina - MA, PhD
 Martino, Rosemary - BS, MA, PhD
 Mathur, Sunita - BSc(PT), MSc(PT), PhD
 McIlroy, William - BSc, PhD
 Mihailidis, Alex - BASc, MASc, PhD
 Morshead, Cindi Marie - BS, PhD
 Mustard, Cameron - AB, ScD
 Nixon, Stephanie - BHSc(PT), BA, MSc, PhD
 Polatajko-Howell, Helene - PhD
 Popovic, Milos - DiplIng, PhD
 Rappolt, Susan - BSc(OT), MSc, PhD
 Reid, Wendy Darlene - BMR(PT), PhD
 Renwick, Rebecca - DipOT, BA, PhD
 Rochon, Elizabeth - BA, MSc, PhD
 Roy, Eric - BSc, MPE, PhD
 Salbach, Nancy - BSc(PT), BS, MSc, PhD
 Stuss, Donald - BPhil, BA, MA, PhD
 Thomas, Scott - BSc, MSc, PhD
 van Lieshout, Pascal - MA, MA, PhD
 Woods, Nicole - BA, PhD
 Yoshida, Karen - BSc, BPHE, MSc, PhD
 Zabjek, Karl - BSc, MCISc, PhD

Members Emeriti

Friedland, Judith - BA, MA, PhD
 Reid, Denise - BSc(OT), MEd, PhD
 Verrier, Mary (Molly) - DipOT, MHSc

Associate Members

Ben-David, Boaz - BA, MA, PhD
 Biddiss, Elaine Alisa - MASc, PhD
 Campbell, Kent - BSc, PhD
 Campisi, Paolo - MD
 Cockburn, Lynn - BSc(OT), BCom, MEd, MPH, PhD
 Colquhoun, Heather - PhD
 Cullen, Nora - MD
 Dutta, Tilak - MEng
 Fehlings, Darcy - MD
 Goldstein, Roger - MBCHB
 Grace, Sherry - BA, MA, PhD
 Hebert, Luc - BSc(PT), MSc, PhD
 Hirdes, John - MD
 Janaudis-Ferreira, Tania - BSc(PT), MSc, PhD
 King, Gillian - BA, MA, PhD
 Landry, Michel - BSc(PT), MSc(PT), PhD
 McEwen, Sara - BSc(PT), BSc(PT), MS, MSc, PhD
 McFadyen, Bradford - BS, MSc, PhD
 Musselman, Kristin - MSc(PT), PhD
 Nalder, Emily - PhD
 Narayanan, Unni - MSc, MD
 Ng, Stella - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Novak, Christine - BSc, BSc, MS, PhD
Parsons, Janet - BSc(PT), BA, MSc, PhD
Patterson, Kara - BSc, BPT, MSc, PhD
Phadke, Chetan - BSc(PT), PhD
Reed, Nicholas - BA, MSc, PhD
Rigby, Patty - DipOT, MHSc
Rudzicz, Frank - PhD
Ryan, Stephen - BEng, MSc, PhD
Steele, Catriona - BA, MHSc, PhD
Switzer-Mcintyre, Sharon - BSc, BPHE, PhD
Topolovec-Vranic, Jane - BS, PhD
Trentham, Barry - BSc(OT), MES, PhD
Wang, Rosalie - BSc, BSc(OT), PhD

Religion

Faculty Affiliation

Arts and Science

Degree Programs

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. **Knowledge Media Design**
 - Religion, MA, PhD
9. **Sexual Diversity Studies**
 - Religion, MA, PhD
10. **South Asian Studies**
 - Religion, MA, PhD
11. **Women and Gender Studies**
 - Religion, MA, PhD
12. **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

Degree and Diploma Programs by Graduate Unit

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department for the Study of Religion's additional admission requirements stated below.
- 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*

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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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 to 8 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. Applicants must also satisfy the Department for the Study of Religion's additional admission requirements stated below.
- 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 4.0 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 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-.
- **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.
- **Professionalization Seminar.** Doctoral students must complete SRD 4444Y *Doctoral Seminar Series—Compulsory Attendance* (CR/NCR). This seminar

consists of a series of workshops, all of which must be completed to fulfil the requirement.

- **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. There are three components in the General Examinations: 1) a four-hour written examination will cover the student's area of specialization, 2) a three-hour written examination will cover at least one important cognate area, and 3) a two-hour oral examination on all materials assigned for the General Examinations. A student who fails any portion of the General Examinations may be re-examined once, no later than nine months after the date of the first examination. The General Examinations must be completed before the end of 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.

Program Length

4 years full-time (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
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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 2043H	Buddhism as Translation
RLG 2060H	Religion and Philosophy in the European Enlightenment
RLG 2062H	Modern Hermeneutics and Religion
RLG 2063H	Hermeneutics and Critical Theory
RLG 2064H	Constructing Religion
RLG 2065H	The Presuppositions of Interreligious Dialogue
RLG 2071H	Religion and Philosophy
RLG 2072H	Kant's Theory of Religion
RLG 2073H	Que(e)rying Religion
RLG 2080H	Origins, Evolution, and the Psychology of Religious Experience
RLG 2083H	Social Scientific Approaches to the Study of Religion
RLG 2084H	Social Science Approaches to Early Christianity: Topical Investigations
RLG 2085H	Genealogies of Christianity
RLG 2088H	The Birth of Anthropology and the Study of Primitive Religion
RLG 2089H	The Study of Non-Literate Religions in Nineteenth- and Early Twentieth-Century France
RLG 2090H	Topics in Psychology of Religion
RLG 3114H	Christianity and Judaism in Colonial Context
RLG 3143H	Hebraica

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RLG 3144H	Isaiah and Prophecy in the Early Judaism and Christianity
RLG 3150H	Reconceiving the Revelatory in Jewish Antiquity
RLG 3190H	Pseudepigraphy in Ancient Mediterranean Religion
RLG 3201H	Topics in Christian Origins I
RLG 3210H	Mani and the Kingdom of Light—Exploring an Alternate Christianity
RLG 3212H	Martyrdom and Christian Identity
RLG 3228H	Social History of the Early Jesus Movement
RLG 3230H	Comparative Theology Seminar
RLG 3232H	Sacred Space
RLG 3235H	Liberation Theology: Examining the Work of Gustavo Guitierrez and Thomas Berry
RLG 3236H	Religious Pluralism and the Church
RLG 3237H	Religion and Social Reform in Canada
RLG 3238H	Latin American Liberation Theology
RLG 3241H	Galatians
RLG 3242H	Christian Asceticism in Late Antiquity
RLG 3243H	The Synoptic Problem
RLG 3248H	Gospel of John and the Jesus Traditions
RLG 3249H	Studies in the Synoptic Gospels
RLG 3250H	Heresy and Deviance in Early Christianity
RLG 3252H	The Letter of James and Early Christian Wisdom
RLG 3258H	Salvation as Liberation in Paul
RLG 3260H	Twentieth-Century Political Philosophy within Christianity
RLG 3261H	Augustine, Aquinas, Lonergan
RLG 3265H	Christian Spirituality and Modern Culture
RLG 3266H	God and Evil
RLG 3270H	Christianity and Crisis in North America
RLG 3272H	Jews and Judaism in Christian Traditions
RLG 3275H	Varieties of North American Christianity
RLG 3280H	Christianities of South Asia

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RLG 3290H	Words and Worship in Christian Cultures
RLG 3410H	Reading Practices in East Asian Religions
RLG 3413H	Burmese Religions
RLG 3414H	The Vessantarajataka
RLG 3415H	Theravada Practice
RLG 3446H	Causation, Movement and Time in Buddhist Scholastic Debate
RLG 3448H	History of Sanskrit Buddhist Tantric Literature
RLG 3450H	Buddhism and Science
RLG 3454H	Readings in Tibetan Buddhism I
RLG 3455H	Readings in Tibetan Buddhism II
RLG 3456H	Tantra in Tibet
RLG 3458H	Rhetoric and Discipline in Buddhist Studies
RLG 3460H	Sanskrit Readings
RLG 3461H	Sanskrit Readings II
RLG 3464H	History and Historiography of Buddhism
RLG 3470H	Buddhist Tantra
RLG 3480H	Religion and Magic in Asia
RLG 3490H	Buddhist Auto/biography
RLG 3501H	Special Topics in Islamic Studies
RLG 3505H	Topics in Islamic Religious Literature
RLG 3510H	Studies in Islamic Thought and Spirituality
RLG 3512H	Introduction to Islamic Law
RLG 3514H	Ismaili History and Thought: The Persian Tradition
RLG 3515H	Law, Ethics and Society in the Islamic Tradition
RLG 3520H	Disciplining Islam
RLG 3522H	Dreams, Visions, and the Enlightenment
RLG 3544H	Islamicate Material Cultures
RLG 3590H	Islam and Sexuality
RLG 3610H	Wisdom in Second Temple Judaism
RLG 3611H	Hebrew Literature and Religion: Midrash Aggadah
RLG 3615H	Post-Holocaust Jewish Thought
RLG 3621H	Modern Jewish Thought

RLG 3622H	Maimonides and His Modern Interpreters
RLG 3634H	Worship and Scripture at Qumran
RLG 3645H	The Jewish Legal Tradition
RLG 3647H	Early Rabbinic Judaism
RLG 3651H	Hellenistic-Jewish Thought
RLG 3653H	Jewish Exegetical Traditions in Antiquity
RLG 3655H	Readings in Jewish Literature (200 BCE–200 CE)
RLG 3691H	Themes in Jewish Studies I
RLG 3703H	Indo-Islamic Civilization: The Sultanate and Mughal Periods
RLG 3710H	Newar Religion
RLG 3714H	Sacred Biography in South Asia
RLG 3715H	Readings in Hindu Tantra
RLG 3720H	Sex, Body, and Gender in South Asian Religious Traditions
RLG 3721H	Ramayana in Literature, Theology, and Political Imagination
RLG 3730H	Fasting and Feeding in Hindu Traditions
RLG 3740H	The Mahaparinirvanasutra
RLG 3741H	The Guru—East and West
RLG 3744H	Hindu Epics
RLG 3745H	Hindu Myths and Mythology
RLG 3750H	Topics in South Asian Religions
RLG 3760H	Vedanta Through the Ages
RLG 3762H	Religion and Aesthetics in South Asia
RLG 3764H	Readings in Sanskrit Philosophy
RLG 3931H	Topics in North American Religions
RLG 4001H	Directed Reading: TST Seminar
RLG 4004H	Colloquium Presentation
SRD 4444Y	Doctoral Seminar Series—Compulsory Attendance (CR/NCR)

Joint Courses

JAR 6510H	From Theory to Ethnography: Anthropological Approaches to Religion
JPR 2057H	Democracy and the Secular
JRG 2050H	Religion, Culture, and Global Politics
JRP 2000H	Religion and Public Policy

Degree and Diploma Programs by Graduate Unit

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 the 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
- Medieval Studies
- Near and Middle Eastern Civilizations
- Philosophy
- Political Science
- Sociology
- Toronto School of Theology

Graduate Faculty

Full Members

Airhart, Phyllis - BA, MA, PhD
Bendlin, Andreas - PhD
Bergen, Doris - MA, PhD
Black, Deborah - BA, MA, PhD
Blouin, Katherine - BA, MA, PhD, PhD
Boddy, Janice - BA, MA, PhD
Bryant, Joseph - BA, MA, PhD
Cobb, Michael - BA, MA, AM, PhD
Cochelin, Isabelle - DipdESup, BA, MA, PhD
Coleman, Simon - BA, PhD
Cunningham, Hilary - BA, MA, PhD
Dahl, Bianca Jane - BA, MA, PhD
Daswani, Girish - BSc, BSc, MS, PhD
Dhand, Arti - BA, MA, PhD
Diamond, James - BA, MA, PhD
DiCenso, James - BA, MA, PhD
Donaldson, Terence - BSc, MTh, DTh
Eisenbichler, Konrad - BA, MA, PhD
Emmrich, Christoph - PhD
Emon, Anver - LLB, BA, LL.M, MA, PhD, SJD
Everett, Nicholas - BA, MA, PhD
Fadel, Mohammad - BA, JD, PhD
Fox, Harry - BSc, BA, MS, 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

Jervis, Leslie - DTh

Kasturi, Malavika - DPhil

Kingwell, Mark - BA, MA, MPH, DFA, PhD

Kivimae, Juri - AM, PhD

Klassen, Pamela - BA, MA, PhD

Kloppenborg, John - BA, MA, PhD (**Chair and Graduate Chair**)

Kortenaar, Neil ten - BA, MA, PhD

Lambek, Michael - BA, MA, PhD

Lawson, Todd - BA, MA, PhD

Locklin, Reid - AB, MTh, PhD

Magee, John - BA, MA, PhD

Marshall, John - BA, MA, PhD

Marshall, Ruth - BA, MA, DPhil

McGowan, Mark - BA, MA, PhD

McLean, Bradley - BSc, MTh, MDiv, PhD

Meacham, Tirzah - BA, MA, PhD

Metso, Sarianna - MA, PhD

Meyerson, Mark - BA, PhD

Mills, Kenneth - MA, PhD

Mittermaier, Amira - MA, PhD

Monius, Anne - PhD

Most, Andrea - BA, MA, PhD

Mullin, Amy - BA, PhD

Napolitano, Valentina - BSc, MPH, PhD

Newman, Judith - PhD

Northrup, Linda - BA, MA, PhD

Novak, David - AB, PhD

O'Neill, Kevin - BA, MA, PhD

Raman, Srilata - BA, MPH, PhD

Ricco, John - BA, MA, PhD

Ross, Jill - BA, MA, PhD

Safi, Omid - BA, MA, PhD

Saleh, Walid - BA, MA, PhD

Sandahl, Stella - MA, MA, PhD

Scharper, Stephen - BA, MA, PhD

Shantz, Colleen - BA, MDiv, PhD

Sharma, Jayeeta - BA, MPH, MA, PhD

Shen, Vincent Tsing-song - MA, PhD

Stoeber, Michael - BA, MA, PhD

Subtelny, Maria - BA, PhD

Sweetman, Robert - BA, MA, PhD

Tavakoli-Targhi, Mohamad - BA, MA, PhD

Taylor, Glen - BA, MPH, MTh, PhD

Terpstra, Nicholas - BA, MA, PhD

Toulouse, Mark - MDiv, PhD

Vaage, Leif - BA, PhD

Virani, Shafique - PhD

Members Emeriti

Callahan, William - AB, MA, PhD

Davies, Alan - BA, BD, STM, PhD

Dooley, Ann - BA, MA, PhD

McIntire, C. Thomas - MA, PhD

O'Connell, Joseph - PhD

O'Toole, Roger - DipEd, BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Richardson, G Peter - BAR, BD, PhD
Sinkewicz, Robert - BA, PhD
Stefanovic, Ingrid - BA, MA, PhD
Stock, Brian - AB, PhD
Vertin, Joseph Michael - BA, PhD

Associate Members

Berger, Benjamin - LLM
Bibeau, Gilles - PhD
Derry, Kenneth - PhD
Dixon, David - BSc, MA, MD
Fehige, Yiftach - MA, PhD, DTh
Goldberg, Sol - MA, PhD
Goodman, Amanda - BA, MA, PhD
Irani, Ayesha - BA, MA, MSW, PhD
Raffaelli, Enrico - PhD
Rao, Ajay - PhD
Ruffle, Karen - PhD
Turner, Alicia - PhD
Walfish, Barry - DipLib, BSc, MA, PhD

Slavic Languages and Literatures

Faculty Affiliation

Arts and Science

Degree Programs

Slavic Languages and Literatures

MA	<i>Fields:</i> Slavic Linguistics Slavic Literatures
PhD	<i>Fields:</i> Slavic Linguistics Slavic Literatures

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Slavic Languages and Literatures' additional admission requirements stated below.
- 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.
- Applicants may be admitted either to the one-year MA or two-year option, depending on their level of preparation.
- For admissions to the **one-year program**, proficiency in a Slavic language equivalent to at least three full years of language training, and broad familiarity with the literary and cultural history of the applicant's proposed disciplinary area(s) of interest (currently, Czech and Slovak, Polish, Russian, South Slavic, Slavic Linguistics, Ukrainian), as evidenced by undergraduate coursework at the 300 or 400 level, are required.
- For admissions to the **two-year program option**, intermediate proficiency in a Slavic language, as evidenced by two full years of language training or equivalent, is required.

Note: All applicants complete the same application process. The department's admissions committee then determines each applicant's suitability for the one-year MA or two-year MA.

Program Requirements

- Depending on their prior preparation, students complete the MA program in either one year or two years.
- All MA students must complete 1.0 FCE as follows: SLA 1104H *Introduction to Old Church Slavonic* and SLA 1040H *Methods of Teaching Slavic Languages*. Students who provide evidence of satisfactory completion of equivalent courses may be exempted from these courses.
- In addition, students who intend to major or minor in Slavic linguistics must take SLA 1109H *Studies in Old Church Slavonic* (0.5 FCE).

One-Year MA Program

- Proficiency in language of major must be demonstrated during first week of the first session in the program. Additional language courses at the undergraduate level may be required. These courses will not count toward the total number

Degree and Diploma Programs by Graduate Unit

of graduate courses required to complete the program. Successful completion of all coursework in the undergraduate language courses is part of a student's good progress in the MA program.

- Students normally complete either:
 - coursework—4.0 full-course equivalents (FCEs) as follows:
 - SLA 1104H
 - SLA 1040H
 - as part of the remaining 3.0 FCEs, Slavic Linguistics students must complete SLA 1109H;

or

- coursework (3.0 FCEs) plus research paper as follows:
 - SLA 1104H
 - SLA 1040H
 - as part of the remaining 2.0 FCEs, Slavic Linguistics students must complete SLA 1109H
 - a research paper written in English.

Normally, a student spends a year in residence.

Two-Year MA Program Option

- Level of proficiency in language of major must be established no later than the first week of the first session in the program to determine required language courses.
- Students normally complete 7.0 full-course equivalents (FCEs) as follows:
 - SLA1104H
 - SLA1040H
 - as part of the remaining 6.0 FCEs, Slavic Linguistics students must complete SLA 1109H
- Normally, a student spends two years in residence.

Program Length

2 sessions full-time 1-year program (typical registration sequence: F/W)

4 sessions full-time 2-year program option (typical registration sequence: F/W/F/W)

Time Limit

3 years full-time

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Slavic Languages and Literatures' additional admission requirements stated below.
- An appropriate University of Toronto master's degree with a minimum A- average in graduate courses and demonstrated research competence.

Program Requirements

Students are normally required to:

- Demonstrate proficiency in language of major during first week of session. Undergraduate language courses may be required. These are not tabulated as part of graduate program course requirements. Successful completion of all coursework in these remedial undergraduate courses is part of a student's good progress in the PhD program.
- 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 1 and 2, students must take courses and be on campus full-time to participate fully in the PhD program's activities.

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.

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.

Program Length

4 years full-time (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.

Croatian and Serbian Literatures

SLA 1507H	Modern Croatian Bards in Performance
SLA 1517H	Modern Serbian Bards
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 1606H	Public Places and Private Spaces in Czech Short Story
SLA 1608H	On the Wave of the Avant-garde
SLA 1609H	Karel Capek
COL 5039H	Of Laughter and Forgetting in Milan Kundera

Polish Literature

Degree and Diploma Programs by Graduate Unit

SLA 1304H	Staging God, Man and History: Polish Drama
SLA 1306H	Polish Poetry: Shaping the National Canon
SLA 1308H	Critical Paradigms in Polish Culture
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 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	Russian Modernism
SLA 1233H	Studies in Modern Russian Poets
SLA 1234H	Dostoevsky
SLA 1235H	Pasternak
SLA 1238H	Chekhov
SLA 1239H	Vladimir Nabokov
SLA 1240H	Tolstoy
SLA 1241H	Narrative and History
SLA 1410H	Gogol
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
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Degree and Diploma Programs by Graduate Unit

SLA 1041Y	Advanced Training in Slavic Languages I
SLA 1042Y	Advanced Training in Slavic Languages II
SLA 1043H	Advanced Training in Slavic Languages I
SLA 1044H	Advanced Training in Slavic Languages II
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 1101Y	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
Holland, Kate - MA, PhD
Koznarsky, Taras - MA, PhD
Kramer, Christina - BA, MA, PhD
Livak, Leonid - BA, AM, PhD (**Coordinator of Graduate Studies**)
Obradovic, Dragana - MA, PhD
Orwin, Donna - PhD
Schallert, Joseph - PhD
Tarnawsky, Maxim - BA, PhD
Trojanowska, Tamara - MA, PhD

Members Emeriti

Bedford, Charles - MA, PhD
Bogert, Ralph - BA, MA, PhD
Dolezel, Lubomir - BA, PhD, FRSC
Iribarne, Louis - BA, MA, PhD
Lantz, Kenneth - BA, MA, PhD
Lindheim, Ralph - BA, MA
Pavliuc, Nicolae - PhD

Degree and Diploma Programs by Graduate Unit

Ponomareff, Constantin - BA, MA, PhD
Thomson, Roger - BA, MA, DPhil

Associate Members

Mikhailova, Julia - AB, AM, AM, DPhil

Social Justice Education

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Social Justice 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**
 - Social Justice Education, MA, MEd, EdD, PhD
2. **Comparative, International and Development Education**
 - Social Justice Education, MA, MEd, EdD, PhD
3. **Diaspora and Transnational Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
4. **Educational Policy**
 - Social Justice Education, MA, MEd, EdD, PhD
5. **Environmental Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
6. **Ethnic and Pluralism Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
7. **Sexual Diversity Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
8. **South Asian Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
9. **Women and Gender Studies**
 - Social Justice Education, MA, MEd, EdD, PhD
10. **Workplace Learning and Social Change**
 - Social Justice Education, MA, MEd, EdD, PhD

Overview

The Department of Social Justice Education offers a multi- and interdisciplinary graduate program developed from the past programs of History and Philosophy of Education as well as Sociology and Equity Studies in Education. It is an intellectual community committed to producing and advancing knowledge on social justice education in Canada and beyond. Social justice education is a robust term, allowing for diverse meanings and methodologies.

This graduate program is concerned with both theoretical and empirical problems regarding in/equity in educational spaces, broadly conceived. Faculty and students approach their inquiries from disciplinary

(e.g., anthropology, history, philosophy, political science, or sociology) and/or interdisciplinary (e.g., anti-colonial, critical race, disability, feminist, francophone, indigenous, or queer) perspectives. They focus on identifying new relationships and making connections by asking significant questions about social justice education within and across disciplines. Hence, they foreground research and teaching in social justice education, pursued through analytical and empirical tools from the humanities and social sciences.

The department's vision is to enable both graduate students and initial teacher education students to explore questions such as, "What was, what is, and what should be the relationship between education and society?" and "What kinds of knowledge do educators need to answer those questions?" The department aims to provide students with the academic knowledge and skills necessary to engage and raise questions of critical importance to educational theories and practices, and their relationship to individuals, communities, and societies.

Contact and Address

Web: www.oise.utoronto.ca/sje

Department of Social Justice Education
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West, 12th Floor North
Toronto, Ontario M5S 1V6
Canada

Degree Programs

Social Justice Education

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.
- The Social Justice Education program welcomes applicants with diverse but relevant backgrounds.
- Admission to the MA program requires an appropriate bachelor's degree in a humanities, social science, or cognate 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 the humanities, or social sciences, and social justice 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 that demonstrates engagement with the humanities, or social sciences, and social justice in education

Program Requirements

- The MA is a research-based degree program which can be taken on a full-time or part-time basis.
- One required half course (HSJ 1903H *Major Concepts and Issues in Social Justice Education*) to be taken in Year 1 of the program.
- 2.5 other full-course equivalents (FCEs), of which at least 1.5 must be Social Justice Education (SJE) courses. Students who are registered in a collaborative program may apply to have their SJE 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 SJE credit.
- Additional courses may be required of some students, and some students may be required to take specified courses in research methods and/or theory.
- Students complete a thesis which may lay the groundwork for doctoral research.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S);

10 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Master of Education

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- Admission to the MEd program 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 of professional experience.
- Applicants are required to submit the following; incomplete applications may be subject to processing delays or rejection:

Degree and Diploma Programs by Graduate Unit

- a careful statement of intellectual interests and concerns relevant to the humanities, or social sciences, and social justice 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; the second letter of reference may be written by a work- or community-based supervisor
- at least one sample of written work that demonstrates engagement with the humanities, or social sciences, and social justice in education

Program Requirements

- Students may complete the MEd program by one of three options:
 - Option II: 4.0 full-course equivalents (FCEs) plus a Major Research Paper (MRP) SJE 2001Y⁰ *Major Research Paper*
 - Option III: 3.0 FCEs plus a thesis
 - Option IV: 5.0 FCEs
- Students who are accepted into the MEd program are automatically assigned to Option IV (courses only). They can transfer to another option (II or III) after they begin their program and have secured an SJE faculty supervisor for the MRP or thesis.
- One required half course (HSJ 1903H *Major Concepts and Issues in Social Justice Education*) to be taken in Year 1 of the program.
- At least half of the FCEs in an MEd program must be Social Justice Education (SJE) courses. Students who are registered in a collaborative program may apply to have their SJE 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 SJE credit.
- The program may be completed on a full-time or part-time basis.

Program Length

Option II	5 sessions full-time (typical registration sequence: F/W/S/F/W); 10 sessions part-time
Option III	6 sessions (typical registration sequence: F/W/S/F/W/S); 10 sessions part-time
Option IV	4 sessions full-time (typical registration sequence: F/W/S/F); 10 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Degree and Diploma Programs by Graduate Unit

Course List

Not all courses are offered every year. Please consult OISE's Graduate Studies Course Schedule.

Master's Level

SJE 1900H	Introduction à la sociologie de l'éducation
SJE 1900H	Introduction to Sociology in Education
SJE 1902H	Introductory Sociological Research Methods in Education
SJE 1903H	Major Concepts and Issues in Social Justice Education
SJE 1905H	Qualitative Approaches to Sociological Research in Education
SJE 1906H	Integrating Research and Practice in Social Justice Education
SJE 1909H	Environmental Sustainability and Social Justice 1
SJE 1911H	Sociologie de l'éducation inclusive
SJE 1912H	Foucault and Research in Education and Culture: Discourse, Power, and the Subject
SJE 1915H	Education and Popular Culture
SJE 1919H	Environmental Sustainability and Social Justice 2
SJE 1921Y	The Principles of Anti-Racism Education
SJE 1922H	Sociology of Race and Ethnicity
SJE 1923H	Racism, Violence, and the Law: Issues for Researchers and Educators
SJE 1924H	Modernization, Development, and Education in African Contexts
SJE 1925H	Indigenous Knowledge and Decolonization: Pedagogical Implications
SJE 1925H	Savoir indigène et décolonization
SJE 1926H	Race, Space and Citizenship: Research Methods
SJE 1927H	Migration and Globalization
SJE 1929H	Theorizing Asian Canada
SJE 1930H	Race, Indigeneity, and the Colonial Politics of Recognition
SJE 1931H	Centering Indigenous-Settler Solidarity in Theory and Research
SJE 1951H	L'École, la participation parentale et la communauté
SJE 1951H	The School and the Community

SJE 1954H	Marginality and the Politics of Resistance
SJE 1956H	Social Relations of Cultural Production in Education
SJE 1957H	Disability Studies: An Introduction
SJE 1958H	The Cultural Production of the Self as a Problem in Education
SJE 1959H	Theoretical Frameworks in Culture, Communications, and Education
SJE 1961H	Spirituality and Schooling
SJE 1982H	Women, Diversity, and the Educational System
SJE 1989H	Black Feminist Thought
SJE 1992H	Feminism and Poststructuralism in Education
SJE 2001Y ⁰	Major Research Paper
SJE 2910H	Changes in Families and Policy Consequences for Government and Education
SJE 2941H	Bourdieu: Theory of Practice in Social Sciences
SJE 2942H	Education and Work
SJE 2996H	Special Topics in Social Justice Research in Education
SJE 2998H	Individual Reading and Research in Social Justice Education: Master's
SJE 2999H	Special Topics in Sociological Research in Education
JHS 1916H	The Graduate Student Experience
JTE 1952H	Language, Culture, and Education
JTE 1952H	Langue, culture, et éducation
JTE 2912H	Teacher's Work

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

Doctor of Education

The EdD degree program is distinct from the PhD in that students are encouraged to orient towards applied and theoretical dimensions of professional educational practice understood as knowledge, teaching, and learning which takes place within or beyond schooling.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.

- The department welcomes applicants with diverse but relevant backgrounds.
- Admission to the EdD program 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 of 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 the humanities, or social sciences, and social justice 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; the second letter of reference may be written by a work-based supervisor
 - at least one sample of written work that demonstrates engagement with the humanities, or social sciences, and social justice in education

Program Requirements

- The EdD degree may be pursued on a full-time or part-time basis.
- Required half course (0.5 full-course equivalent [FCE]): HSJ 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis* is taken in Year 1 of the program.
- Required half course (0.5 FCE): HSJ 3997H *Practicum in Social Justice Education* (72 hours).
- 3.0 other FCEs, of which at least 1.5 FCEs must be Social Justice Education (SJE) courses. Students who are registered in a collaborative program may apply to have their SJE 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 SJE 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.

Program Length

4 years full-time; 6 years part-time

Time Limit

6 years full-time; 6 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the department's additional admission requirements stated below.
- The department welcomes applicants with diverse but relevant backgrounds.
- PhD students who are admitted without sufficient previous study in a humanities, social science, 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 the humanities, or social sciences, and social justice 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 that demonstrates engagement with the humanities, or social sciences, and social justice in education

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.

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), including a required half course (HSJ 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis*) to be taken in Year 1 of their program. Additional courses may be required, and some students may be required to take other specified courses in research methods and/or theory. At least 2.0 FCEs of the students' PhD coursework must be taken within SJE. Students who are registered in a collaborative program may apply to have their

Degree and Diploma Programs by Graduate Unit

SJE 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 SJE 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 practising 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 SJE, with the possibility to apply for a reduction of 0.5 FCE in the SJE course requirement if the student is also registered in a collaborative program.
- Included in the 2.0 FCEs taken in SJE, students are required to take HSJ 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis* in Year 1 of their program.
- All PhD students must complete a comprehensive examination:
 - Students are encouraged to take, as part of their program requirements, one half course (0.5 FCE) focused on the substantive area on which they will be examined.
 - Students choose one of the following:
 - a major paper (30 to 40 pages); or
 - a substantive course outline (30 to 40 pages) for a topic of interest to the student within the area of social justice education; or
 - a solid draft of a scholarly article.
 - The option selected and the date for the comprehensive exam will be decided by the student and the supervisor. The comprehensive exam should be taken no later than the end of Year 3 (end of Year 4 for flexible-time students).
 - A student who fails the comprehensive exam will be permitted one additional attempt to pass. A second failure will result in the recommendation for termination of the student's registration.
 - Comprehensive exams will be graded on a pass or fail basis.
- 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.

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's Graduate Studies Course Schedule.

Doctoral Level

SJE 3903H	SJE Learning to Succeed in Graduate School
SJE 3904H	Introduction to Advanced Sociological Theory in Education
SJE 3905H	Interdisciplinary Approaches to Humanities Social Science: Theory and Praxis
SJE 3910H	Advanced Seminar on Race and Anti-Racism Research Methodology in Education
SJE 3911H	Cultural Knowledges, Representation and Colonial Education
SJE 3912H	Race and Knowledge Production: Research Methods
SJE 3914H	Anti-Colonial Thought and Pedagogical Challenges
SJE 3915H	Franz Fanon and Education
SJE 3929H	Advanced Disability Studies: Interpretive Methods, Interpreted Bodies—Research Methods
SJE 3933H	Globalisation and Transnationality: Feminist Perspectives
SJE 3996H	Special Topics in Advanced Social Justice Research in Education
SJE 3997H	Practicum in Social Justice Education
SJE 3998H	Individual Reading and Research in Sociology Justice Education
SJE 3999H	Special Topics in Advanced Sociological Research in Education
JSA 5147H	Language, Nationalism, and Post-Nationalism

The following courses are accepted for credit in the SJE program and will satisfy that program's specialization requirements:

SJE 1419H	Historiography and the History of Education
SJE 1433H	Freedom and Authority in Education
SJE 1436H	Modernity and Postmodernity in Social Thought and Education
SJE 1438H	Democratic Approaches to Pedagogy

Degree and Diploma Programs by Graduate Unit

SJE 1440H	An Introduction to Philosophy of Education
SJE 1441H	Philosophical Dimensions of Moral Education
SJE 1443H	Troubling' Knowledges in Education: the Politics of Claiming Truths
SJE 1447H	Technology in Education: Philosophical Issues
SJE 1452H	Individual Reading and Research in the History of Education: Master's Level
SJE 1453H	Individual Reading and Research in the Philosophy of Education: Master's Level
SJE 1461H	Special Topics in History of Education
SJE 1465H	Special Topics in Philosophy of Education
SJE 1471H	Critical Issues in Education: Philosophical Perspectives
SJE 1472H	Philosophical Questions about the Teaching of Philosophy
SJE 3417H	Research Seminar in Feminist Criticism, Aesthetics, and Pedagogy
SJE 3436H	Aesthetics and Education
SJE 3452H	Individual Reading and Research in the History of Education: Doctoral Level
SJE 3453H	Individual Reading and Research in the Philosophy of Education: Doctoral Level
SJE 3480H	EdD Seminar in the Philosophy of Education I
SJE 3481H	EdD Seminar in the Philosophy of Education
SJE 3490H	EdD Seminar in the History of Education I
SJE 3491H	EdD Seminar in the History of Education II

Farmer, Diane - BA, MSS, PhD
 Heller, Monica - BA, MA, PhD
 Iseke-Barnes, Judy - BA, PhD
 Olson, Paul - BA, MA
 O'Sullivan, Julia - BA, MA, PhD
 Portelli, John - MEd, PhD
 Razack, Sherene - BA, MA, PhD (**Graduate Coordinator**)
 Titchkosky, Tanya - BA, MA, PhD
 Walcott, Rinaldo - BA, MA, PhD
 Wane, Njoki - BE, MSc, MEd, PhD

Members Emeriti

Acker, Sandra - BA, MA, PhD
 Bogdan, Deanne - BA, MA, PhD
 Boyd, Dwight - BA, MEd, EdD
 Dehli, Kari - BA, MA, PhD
 Eichler, Margrit - MA, PhD, LLD
 Gamlin, Peter - BA, MA, PhD
 Livingstone, David - BA, PhD
 Misgeld, Dieter - BA, PhD
 Prentice, Alison - BA, MA, PhD
 Smith, Dorothy - BSc, PhD, LLD

Associate Members

DeYoung, Alan J. - BA, MA, PhD
 Farley, Lisa - BA, BEd, MEd, PhD
 Lang, James - DipEd, MEd, PhD
 Norris, Trevor - BA, BEd, MA, PhD
 Steinberg, Shirley Ruth - PhD
 White, Kimberly - PhD
 Zoric, Terezia - BEd, BA, MA

Graduate Faculty

Full Members

Bakan, Abigail - BA, MA, PhD (**Chair and Graduate Chair**)
 Boler, Megan - BA, PhD
 Bredo, Eric - BA, MA, PhD
 Cannon, Martin - MA, PhD
 Coloma, Roland Sintos - TD, BA, MA, MA, PhD
 Dei, George JS - BA, MA, PhD

Social Work

Faculty Affiliation

Social Work

Degree Programs

Social Work

MSW

PhD

Combined Degree Programs

Law, JD / MSW

Health Administration, MHSc / MSW

Diploma Programs

Admissions to this diploma program have closed.

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, 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, PhD
9. **Human Development**
 - Social Work, PhD
10. **Sexual Diversity Studies**
 - Social Work, MSW, PhD
11. **Women and Gender Studies**
 - Social Work, MSW, PhD
12. **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 almost 100 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 for Social Work Education.

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
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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 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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Social Work's additional admission requirements stated below.
- 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 advanced-standing option.
- 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 proficiency (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 inquiries 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

Degree and Diploma Programs by Graduate Unit

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 1 of the two-year full-time MSW program—all students.
- In the event that a student does not complete two or more required courses, or receives an FZ (inadequate) after repeating any course, normally steps will be taken by the Faculty to recommend the termination of the student's registration.

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:

SWK 4102H	Social Policy and Social Welfare in the Canadian Context
SWK 4103H	Elements of Social Work Practice
SWK 4105H	Social Work Practice Laboratory
SWK 4107H	Foundations of Social Work: Knowledge, Theory, and Values that Inform Practice
SWK 4510H	Research for Evidence-Based Social Work Practice (SWK 4510H must be completed before taking any of the research courses in the specialization)
SWK 4602H	Social Work Practice with Groups
SWK 4603H	Advanced Social Work Practice with Groups (prerequisite: SWK 4602H or demonstration of successful completion of a group practice course with equivalent content)
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
SWK 4658H	Social Work with Immigrants and Refugees
SWK 4701H ⁺	Social Work Practicum I (prerequisite: SWK 4105H completed prior to beginning practicum)

⁺ *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

- **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 an 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 to 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

SWK 4514H	Research for Practice with Children and their Families
SWK 4608H	Social Work Practice with Families
SWK 4620H	Social Work Practice with Children and Adolescents
SWK 4625H	The Intersection of Policy and Practice with Children and their Families
SWK 4702Y	Social Work Practicum II (full credit)

- **MSW Program With Advanced Standing students** must complete the above courses plus a compulsory course: SWK 4510H *Research for Evidence-Based Social Work Practice* (SWK 4510H must be completed before taking any of the research courses in the specialization).

Field: Social Justice and Diversity

Reducing inequalities and marginalization is in line with professional social work's agenda of anti-oppression and social justice. Social work is committed to working with and on behalf of people from disenfranchised backgrounds.

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 to 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 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 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 4304H	Globalization and Transnationalism: Intersections of Policy and Community Practice Locally and Globally
SWK 4306H	Theoretical Approaches to Defining Social Injustice and Engaging in Social Change
SWK 4512H	Research Knowledge for Social Justice
SWK 4606H	Diversity, Access, and Equity in Social Work Practice
SWK 4702Y	Social Work Practicum II (full credit)

- **MSW Program With Advanced Standing students** must complete the above courses plus a compulsory course: SWK 4510H *Research for Evidence-Based Social Work Practice* (SWK 4510H must be completed before taking any of the research courses in the specialization).

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 disability and exacerbate or ameliorate the challenges in adapting to illness and living with disability.

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 and is offered in the Winter session; the second-year practicum (September to 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

Degree and Diploma Programs by Graduate Unit

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 the above courses plus a compulsory course: SWK 4510H *Research for Evidence-Based Social Work Practice* (SWK 4510H must be completed before taking any of the research courses in the specialization).

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 to 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.

Degree and Diploma Programs by Graduate Unit

Compulsory Courses—Year Two

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
SWK 4702Y	Social Work Practicum II (full credit)

- **MSW Program With Advanced Standing students** must complete the above courses plus a compulsory course: SWK 4510H *Research for Evidence-Based Social Work Practice* (SWK 4510H must be completed before taking any of the research courses in the specialization.)

Field: Gerontology

Social workers provide a wide variety of services and programs, both in the community and in institutions that are aimed at enhancing the quality of life of older people and assisting families to adjust to the aging of their family member. Social workers also play a vital role in the development and implementation of social and economic policies at the provincial and national levels through research on aging, consultation with government, and through social advocacy.

- All students enrolled in the Social Work in Gerontology field of specialization will automatically be enrolled in the Collaborative Program in Aging, Palliative and Supportive Care Across the Life Course.

MSW Two-Year Program

- Students in the MSW two-year program must complete a total of 9.0 FCEs, including core MSW coursework (4.0 FCEs), required field of specialization coursework (2.5 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs) in the student's field of specialization.
- Thesis: Students in the two-year MSW program complete a total of 9.0 FCEs, including core MSW coursework (4.0 FCEs), required field-specialization coursework (2.5 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), the first-year practicum (0.5 FCE), 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 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, 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 the above courses plus a compulsory course: SWK 4510H *Research for Evidence-Based Social Work Practice* (SWK 4510H must be completed before taking any of the research courses in the specialization).

Program Length

6 sessions two-year full-time (typical registration sequence: F/W/S/F/W/S);
3 sessions advanced-standing full-time (typical registration sequence: F/W/S);
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.

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 4420H	Human Rights and Social Justice
SWK 4422H	Social Housing and Homelessness
SWK 4506H	Applied Quantitative Data Analysis
SWK 4516H	Advanced Research in Social Work
SWK 4603H	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: Interventive Approaches
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 4629H	Social Work Practice and Aboriginal Peoples
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

Degree and Diploma Programs by Graduate Unit

SWK 4640H	Special Topics in Mental Health Social Work II
SWK 4641H	Special Topics in Social Work in Gerontology
SWK 4642H	Special Topics in Social Service Administration
SWK 4643H	Special Topics in Social Justice and Diversity
SWK 4644H	Special Topics in Social Work in Gerontology II
SWK 4645H	Special Topics in Children and their Families II
SWK 4646H	Special Topics in Social Service Administration II (modular course)
SWK 4658H	Social Work with Immigrants and Refugees
SWK 4662H	Social Policy Analysis
SWK 4667H	Information Technology in Professional Social Work Practice
SWK 4668H	Welfare of Children
SWK 4669H	Psychodynamic Theories and Clinical Social Work Practice
SWK 4670H	Cybercounselling and Social Work Practice
SWK 4671H	Neuroscience and Social Work Practice
SWK 4672H	Children and Families Living with Disabilities
SWK 4673H	Mindfulness Therapy and Social Work 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 Degree Program: Law, Juris Doctor / Master of Social Work

For full details, see the Law, Juris Doctor / Master of Social Work entry in the Combined Degree Programs section of this calendar.

Degree and Diploma Programs by Graduate Unit

Combined Degree Program: Health Administration, Master of Health Science / Master of Social Work

For full details, see the Health Administration, Master of Health Science / Master of Social Work entry in the Combined Degree Programs section of this calendar.

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the graduate unit's additional admission requirements stated below.
- Master of Social Work degree or an equivalent master's degree with at least a 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 post-graduate work.
- Evidence of proficiency in the English language (see SGS General Regulations).
- Initial admission inquiries 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 A.
 - 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* (Credit/No Credit) (0.5 FCE) is required during the Fall session of the second year of the program.
 - First-year PhD students will attend a mandatory first-year colloquium during the Fall session (two hours per week), no credit.
- Following completion of coursework, students are required to satisfactorily complete:
 - a comprehensive paper,
 - followed by a thesis proposal,
 - and thesis

- which can be in the traditional thesis format, which constitutes a distinct contribution to knowledge in the field of social work, or
- a three-paper option based on the same fundamental principles of independent student work and scholarly rigour. The three-paper dissertation option allows students to write three related papers in a given topic or area of interest in which they have conducted research as required for the PhD program.
 - 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.
- In the event that a student does not complete two or more required courses, or receives an FZ (inadequate) after repeating any course, normally steps will be taken by the Faculty to recommend the termination of the student's registration.

Program Length

4 years full-time

Time Limit

6 years full-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)

Recommended Course

SWK 4506H	Applied Quantitative Data Analysis (prerequisite for SWK 6301H; students who pass a competency exam will be exempted from taking SWK 4506H)
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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.

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 Program

Admissions to this diploma program have closed.

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 are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Faculty of Social Work's additional admission requirements stated below.
- Applicants must have an 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.

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 taken 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
 Bhuyan, Rupaleem - BA, MA, PhD
 Bogo, Marion - BA, MSW
 Brennan, David - BA, MSW, PhD
 Chambon, Adrienne - BA, PhD
 Craig, Shelley - BS, MSW, PhD (**Associate Dean, Academic and Graduate Coordinator from Jan. 1, 2016**)
 Fallon, Barbara - BA, MSW, PhD
 Fang, Lin - BA, MSW, PhD (**Director, PhD Program**)
 Fuller-Thomson, Esme - BA, MSW, PhD
 Hulchanski, J David - BA, MSc, PhD
 Lee, Eunjung - BSW, MSW, PhD
 Lightman, Ernie - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

MacFadden, Robert - BA, MSW, PhD
McDonald, Lynn - PhD
Mishna, Faye - BA, PhD (**Dean**)
Newman, Peter - BA, MA, MSW, PhD
Neysmith, Sheila - BSc, MSW, DSW
Regehr, Cheryl - AB, MA, PhD
Saini, Michael - BSW, BA, BA, MSW, PhD
Sakamoto, Izumi - DSW
Sera, Wes - BA, MA, PhD
Stern, Susan - DSW
Trocme, Nicolas - PhD
Tsang, Ka Tat - BSc, PhD
Williams, Charmaine - BA, BSc, MSW, PhD

Saltzburg, Susan - PhD
Shier, Micheal - MSW, PhD
Shlonsky, Aron - BA, MPH, MSW, DPhil
Sinding, Christina - BA, MA, PhD
Skinner, Wayne - MSW
Stewart, Malcolm - DSW
Swift, Karen - AB, MSW, PhD
Zlotnik Shaul, Randi - PhD

Members Emeriti

Bellamy, Donald - BA, BSW, MSW, DSW
Breton, Margot - BA, MSW
George, Usha - BSc, BEd, MA, MA, PhD
Irving, Howard - BS, MSW, DSW
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
Blackstock, Cindy - PhD
Bouffet, Eric - MD
Burnes, David - MSW, PhD
Cheng, Terry - PhD
Cullen, James - BSW, BA, MSW, PhD
Curwen, Tracey - PhD
Deutsch, Robin - PhD
Donahue, Peter - BSc, BA, DSW
Fleischer, Les - BA, MSW, DSW
Fluke, John - PhD
Fudge-Schormans, Ann - PhD
Gadalla, Tahany - BSc, MS, MMath, EdD
Gaetz, Stephen - PhD
Gooden, Amoaba - PhD
Goodman, Deborah - BA, MSW, DSW
Herie, Marilyn - BA, MSW, PhD
Ickowicz, Abel - MD
Jenney, Angelique - BA, MSW, PhD
Johnson, Holly - PhD
Litvack, Andrea - BSW, MSW (**Acting Associate Dean,
Academic, and Graduate Coordinator July 2015 to
Dec. 2015**)
Logie, Carmen - BA, MSW, PhD
Lurie, Stephen - BA, MSW, MBA
McNeill, Ted - BA, MSc, DPhil
Myers, Ted - BA, MSW, MSc, PhD
Noack, Andrea - BA, MA, PhD
Pepler, Debra - BA, BEd, MSc
Pierce, Barbara Decker - MBA, MSW, PhD
Power, Roxanne - BA, BSW, MSW

Sociology

Faculty Affiliation

Arts and Science

Degree Programs

Sociology

MA

PhD

Collaborative Programs

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

1. **Addiction Studies**
 - Sociology, MA, PhD
2. **Aging, Palliative and Supportive Care Across the Life Course**
 - Sociology, MA, PhD
3. **Asia-Pacific Studies**
 - 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. **Sexual Diversity Studies**
 - Sociology, MA, PhD
9. **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.

Degree and Diploma Programs by Graduate Unit

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

Web: www.sociology.utoronto.ca

Email: sociology.graduate@utoronto.ca or

socgrad.assist@utoronto.ca

Telephone: (416) 978-3414

Fax: (416) 978-3963

Department of Sociology

University of Toronto

725 Spadina Avenue

Toronto, Ontario M5S 2J4

Canada

Degree Programs

Sociology

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Sociology's additional admission requirements stated below.
- 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

Degree and Diploma Programs by Graduate Unit

of instruction was not English must demonstrate proficiency 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 (TWE)
- 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 12 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*, and 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.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

15 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. Applicants must also satisfy the Department of Sociology's additional admission requirements stated below.
- The normal requirement is completion of the University of Toronto MA, 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 Studies' 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 proficiency 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 (TWE)
 - 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*, and 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 Year 2 in the program. If a student fails a comprehensive exam, the student has one attempt to rewrite the exam within one year of the original exam date.
- Submission of a written thesis proposal and its successful oral defence to a supervisory committee consisting of three faculty members. If a student should fail, the student is permitted one additional opportunity to defend a revised thesis proposal.
- University policy requires that students complete all their non-thesis requirements (coursework, comprehensive examinations, thesis proposal, and language requirement if applicable) by the end of Year 3 (or Year 4 for those entering directly from an undergraduate program).
- Preparation of an original PhD thesis, which must be defended at a Doctoral Final Oral Examination.
- 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.

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 the 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	Ethnography
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—Design-Based Data Analysis

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

Areas of Specialization

Immigration and Ethnicity

SOC 6002H	Immigration I
SOC 6003H	Immigration II
SOC 6009H	Ethnicity I
SOC 6109H	Ethnicity II
SOC 6209H	Ethnicity III

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 Sociological Studies

CRI 3140H	Special Topics in Criminology
SOC 6006H	Deviance I
SOC 6106H	Deviance II
SOC 6206H	The Sociology of Deviance and Control
SOC 6306H	Sociology of Law
SOC 6406H	Sociology of Law II
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
SOC 6219H	Gender Relations III

Stratification, Work, and Labour Markets

SOC 6012H	Sociology of Work I
SOC 6112H	Sociology of Work II
SOC 6013H	Social Inequality I

Degree and Diploma Programs by Graduate Unit

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 6210H	Political Sociology III
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	Culture and Cognition
SOC 6518H	Culture Industries
SOC 6519H	Sociology of Food

Other Courses

SOC 6016H	Social Demography
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
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Graduate Faculty

Full Members

Andersen, Robert - BA, MA, PhD(**Chair**)
 Baber, Zaheer - PhD
 Baumann, Shyon - BA, MA, PhD
 Berry, Brent - BS, PhD
 Boyd, Monica - BA, MA, PhD
 Brownfield, David - PhD
 Bryant, Joseph - BA, MA, PhD
 Brym, Robert - BA, MA, PhD
 Cranford, Cynthia - MA, PhD

Dinovitzer, Ronit - BA, 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
 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
 Korteweg, Anna - BA, MA, PhD
 Kruttschnitt, Candace - BA, MA, MPH, PhD
 Landolt, Patricia - BA, MA, PhD
 Levi, Ron - BCL, LLB, LLM, SJD
 Magee, William - PhD
 Maurutto, Paula - DPhil
 Milkie, Melissa Ann - BA, MA, PhD (**Graduate Chair**)
 Mullen, Ann Louise - BA, MA, PhD
 Peng, Ito - BSW, BSc, MA, PhD
 Reitz, Jeffrey - PhD
 Schieman, Scott - BA, MA, PhD
 Tanner, Julian - DipEd, BSc, MA, PhD
 Taylor, Judith - BA, PhD
 Tepperman, Lorne - BA, MA, PhD
 Ungar, Sheldon - BA, MA, PhD
 Veugelers, Jack - PhD
 Welsh, Sandy - BA, MA, PhD
 Wheaton, Blair - PhD
 Zhang, Weiguo - PhD

Members Emeriti

Baldus, Bernd - MA, DrRerPol
 Blute, Marion - BA, MA, PhD
 Bodemann, Michal - MA, PhD
 Breton, Raymond - BA, MA, PhD
 Campbell, Douglas - BA, MA, PhD
 Gillis, Ronald - BA, MA, PhD
 Hagan, John - BA, MA, PhD
 Hammond, Michael - BA, MA, MPH, 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
 Myles, John - BA, BTh, MA, PhD
 Sev'er, Aysan - BA, MA, PhD
 Silva, Edward - BA, MA, PhD
 Simpson, John - BA, BD, MTh, PhD
 Spencer, Metta - AB, MA, PhD
 Wellman, Barry - BA, MA, PhD, PhD
 Zeitlin, Irving - BA, MA, PhD

Associate Members

Carlson, Jennifer Dawn - PhD
Childress, Christopher Clayton - BA, MA, PhD
Contreras, Randol - BA, MA, PhD
Farah Schwartzman, Luisa - PhD
Goodman, Philip - BA, MA, PhD
Lee, Jooyoung - BA, MA, PhD
Leschziner, Vanina - BA, BA, AM, DPhil
Liddle, Kathleen - BA, AM, PhD
Marin, Alexandra - BA, MA, PhD
Salem, Rania Hatem - BSc, MSS, PhD
Schafer, Markus - BA, MS, PhD
Schneiderhan, Erik - PhD
Silver, Daniel - BA, MA, PhD
Wodtke, Geoffrey - BA, MA, PhD

Degree and Diploma Programs by Graduate Unit

Spanish

Faculty Affiliation

Arts and Science

Degree Programs

Spanish

MA	<i>Fields:</i> Hispanic Linguistics Hispanic Literatures and Cultures
PhD	<i>Fields:</i> Hispanic Linguistics Hispanic Literatures and Cultures

Collaborative Programs

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

1. **Book History and Print Culture**
 - Spanish, MA, PhD
2. **Diaspora and Transnational Studies**
 - Spanish, MA, PhD
3. **Editing Medieval Texts**
 - Spanish, PhD
4. **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 two fields:

- Hispanic Linguistics
- Hispanic Literatures and Cultures

Applicants are admitted 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 graduate 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

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Department of Spanish's additional admission requirements stated below.
- 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 materials:
 - a one-page statement of purpose, outlining the applicant's areas of interest
 - a sample of written work in Spanish (10 to 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 two fields:
 1. Hispanic Linguistics
 2. Hispanic Literatures and Cultures
- 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 (e.g., 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.

Program Length

2 sessions full-time (typical registration sequence: F/W);

6 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. Applicants must also satisfy the Department of Spanish's additional admission requirements stated below.
- 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 to 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 two fields:
 1. Hispanic Linguistics
 2. Hispanic Literatures and Cultures
- **4.0 full-course equivalents (FCEs)**. It is expected that students will complete the required coursework in Year 1. However, with the approval of the Graduate Coordinator, up to 1.0 FCE may be taken in Year 2. Each field has distribution requirements; details are on the department's website.
- By March 15 of Year 1, 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

Degree and Diploma Programs by Graduate Unit

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 subfields of **Hispanic Literature** or **Linguistics**: the subfield of the student's proposed dissertation research and a subfield relevant to the student's research and general preparation.
- By October 1 of Year 2, each student must submit to the Graduate Coordinator a brief statement (three to four pages double-spaced) concerning the primary and secondary subfields for the field examination and two reading lists (one for each subfield). Each reading list should consist of 25 to 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 2. 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 subfields 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 to 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.

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- **Language requirements** must be fulfilled before registering for Year 4. 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.

Program Length

4 years full-time

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.

COL 5019H	Cervantes and Humanism
COL 5029H	Reading Cervantes
COL 5032H	Feminist Approaches to Medieval Literature
COL 5064H	Medieval Literary Theory
COL 5065H	The Forms of Literature in the Age of Electricity
COL 5072H	Affinities: Readings of Realism and Radicalism
JRL 1100Y	Introduction to Romance Philology
JRL 1101H	Topics in Romance Laboratory Phonetics and Phonology I: Theory
JRL 1106H	Topics in Romance Laboratory Phonetics and Phonology II

LIN 1029H	Sound Patterns in Language
LIN 1031H	Morphological Patterns in Language
SPA 1053H	History of the Spanish Language
SPA 1080H	Descriptive Grammar of Spanish
SPA 1081H	The Structure of Spanish
SPA 1082H	Sociolinguistics of Spanish
SPA 1083H	Microvariation in Spanish
SPA 1084H	Experimental Approaches to Hispanic Linguistics
SPA 1088H	Spanish Syntax
SPA 1089H	Morphosyntax
SPA 1093H	Linguistics in Spanish
SPA 1094H	Spanish Bilingualism
SPA 1097H	Second-Language Teaching and Methodology
SPA 1101H	Topics in the Acquisition of Spanish
SPA 1103H	Topics in Spanish Phonology
SPA 1104H	Experimental Approaches to Sound Variation and Change
SPA 1150H	Directed Research in Hispanic Linguistics
SPA 2018H	Poetics of Early Drama
SPA 2021H	The Politics of Print
SPA 2022H	Books and Borders
SPA 2025H	The Worlds of Alfonso X, el Sabio
SPA 2060H	Literature and Society of Castile in the Late Middle Ages and Early Renaissance
SPA 2121H	Psychoanalysis and the Passions in Early Modern Literature
SPA 2135H	Aspects of Picaresque in 16th and 17th Century Spanish Prose
SPA 2150H	Defining Journeys in the Spanish Empire
SPA 2171H	Politics and Aesthetics of Early Modern Verse
SPA 2187H	Comedy and the Comedia in Early Modern Spain
SPA 2189H	Lope and Caldern
SPA 2284H	Narrative and Political Transition in Contemporary Spain
SPA 2291H	The Urban Experience in Spain
SPA 2305H	Auteurism in Spanish Cinema

Degree and Diploma Programs by Graduate Unit

SPA 2352H	Modern Spanish Drama and its Traditions
SPA 2404H	The Latin American Novel
SPA 2410H	Latin American Fiction and the Interfaces of Literature and Science
SPA 2415H	Disability and Latin American Cultural Production
SPA 2424H	Spanish American Poetry and Poetics
SPA 2425H	21st Century Latin American Art and Culture
SPA 2432H	Text and Image in Latin American Culture
SPA 2802H	The Politics of Errantry in the Hispanic Caribbean
SPA 2805H	Representations of Women in Latin American Culture
SPA 2850H	Nineteenth-Century Latin American Literature
SPA 2900H	Issues in Literary Theory and Hispanic Texts
SPA 2905H	Latin American Cultural Theories
SPA 2912H	Passions of the Soul and 15th Century Spanish Fiction
SPA 2929H	Early Modern Spanish Pastoral and Beyond
SPA 2940H	Pursuing the Post-Revolution: Literature and Philosophy of <i>Mexicanidad</i>
SPA 2945H	Exile and Diaspora in Luso-Hispanic Literature and Film
SPA 3000H	Directed Research in Hispanic Literatures

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

Ramirez-Salazar, Manuel - BA, MA, PhD

Graduate Faculty

Full Members

Colantoni, Laura - MA, PhD
 Cuervo, Maria Cristina - PhD
 Davidson, Robert - BA, AM, PhD
 Iglesias, Yolanda - BA, BA, MA, PhD
 Jagoe, Eva-Lynn - BA, MA, PhD
 Munjic, Sanda - 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

Speech-Language Pathology

Faculty Affiliation

Medicine

Degree Programs

Speech-Language Pathology

MHSc

Overview

The **Master of Health Science (MHSc) in Speech-Language Pathology** is a full-time professional graduate program. 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.

Contact and Address

Web: www.slp.utoronto.ca

Email: slp.admissions@utoronto.ca

Telephone: (416) 978-1794

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

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Department of Speech-Language Pathology's additional admission requirements stated below.
- 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.
- Proficiency 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 proficiency 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:
 - 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 4 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 must complete all requirements within two consecutive years.

Program Length

6 sessions full-time (typical registration sequence: F/W/S/F/W/S)

Time Limit

3 years full-time

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 students will consist of:

SLP 1500Y ⁺	Internship (Credit/No Credit)
SLP 1502Y	Anatomy and Embryology
SLP 1503Y	Articulation and Related Disorders
SLP 1505Y	Child Language I
SLP 1506H	Child Language II
SLP 1507H ⁰	Clinical Laboratory in Speech-Language Pathology
SLP 1514Y	Applied Audiology
SLP 1516H	Aural Rehabilitation
SLP 1520H ⁺	Principles of Clinical Practice
SLP 1521H	Augmentative Communication
SLP 1522Y	Speech Physiology and Acoustics
SLP 1529H	Fluency Disorders
SLP 1530H	Voice Disorders
SLP 1532H ⁰	Clinical Laboratory in Hearing Disorders: Aural Rehabilitation or Audiology Component (Credit/No Credit)

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.

The second year of the program for students will consist of:

SLP 1508Y	Advanced Clinical Laboratory in Speech-Language Pathology
SLP 1525H	Structurally Related Disorders
SLP 1527H ⁺	Clinical Analysis of Communication and Swallowing Disorders
SLP 1528H ⁺	Research in Speech-Language Pathology
SLP 1533Y	Aphasia
SLP 1534H	Motor Speech Disorders
SLP 1535H ⁺	Advanced Principles of Clinical Practice

Degree and Diploma Programs by Graduate Unit

SLP 1536H	Swallowing Disorders
SLP 1538H	Neurocognitive Communication Disorders
SLP 2500Y	Advanced Internship

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

Graduate Faculty

Full Members

Bressmann, Tim - MPH, PhD
De Nil, Luc - MSc, PhD
Eriks-Brophy, Alice - BEd, BA, MSc, PhD
Girolametto, Luigi - BA, MSc, PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Mainela-Arnold, Elina - MA, PhD
Martino, Rosemary - BS, MA, PhD
Meltzer, Jed - BSc, PhD
Rochon, Elizabeth - BA, MSc, PhD
Smyth, Ronald - BA, MSc, PhD
Steele, Catriona - BA, MHSc, PhD
van Lieshout, Pascal - MA, MA, PhD (**Chair and Graduate Chair**)
Yunusova, Yana - MS, MA, PhD

Associate Members

Ben-David, Boaz - BA, MA, PhD
Bradley, Kimberley - BA, MHSc, PhD
Ellwood, Lynn - BSc(CD), MA
Jacobson, Marlene - BA, PhD
Jokel, Regina - MHSc, PhD
Kagan, Aura - BAA, BA, MA, PhD
Kroll, Robert - BSc, MSc, PhD
Leonard, Carol - BA, MASc, PhD
Liu, Louis - MD, PhD
Ng, Stella - BA, MA, PhD
Parnes, Pauline - BSc
Wagner, Susan - BSc, MSc
Weitzman, Elaine - BA, MEd

Statistical Sciences

Faculty Affiliation

Arts and Science

Degree Programs

Statistics

MSc	<i>Fields:</i> Statistical Theory and Applications Probability
PhD	<i>Fields:</i> Statistical Theory and Applications Probability Actuarial Science and Mathematical Finance

Overview

Statistical Sciences involves the study of random phenomena and encompasses a broad range of scientific, industrial, and social processes. As data become ubiquitous and easier to acquire, particularly on a massive scale, models for data are becoming increasingly complex. The past several decades have witnessed a vast impact of statistical methods on virtually every branch of knowledge and empirical investigation.

The Department of Statistical Sciences offers opportunities for study and research in the fields of (a) **Statistical Theory and Applications** and (b) **Probability**, leading to the **Master of Science** and the **Doctor of Philosophy** degrees, and (c) **Actuarial Science and Mathematical Finance**, leading to the **Doctor of Philosophy** degree. Please visit the Department of Statistical Sciences website for further details about the fields offered, the research being conducted, and the course offerings in the department.

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 Computer Science, Economics, Engineering, Mathematics, Public Health Sciences, and the Rotman School of Management. The department maintains an active seminar series and strongly encourages graduate student participation.

Interested applicants will find detailed information 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 Statistical Sciences
University of Toronto
Sidney Smith Hall
Room 6022, 100 St. George Street
Toronto, Ontario M5S 3G3
Canada

Degree Programs Statistics

Master of Science

*Fields: Statistical Theory and Applications
Probability*

Minimum Admission Requirements

- Admission to the MSc program is competitive, and applicants are admitted under the General Regulations of the School of Graduate Studies. Admission requirements for the Statistical Theory and Applications field and the Probability field are identical. Successful applicants have:
 - An appropriate bachelor's degree from a recognized university in a related field such as statistics, actuarial science, mathematics, economics, engineering, or any discipline where there is a significant quantitative component. Studies must include significant exposure to statistics, computer science, and mathematics, including coursework in advanced calculus, computational methods, linear algebra, probability, and statistics.
 - An average grade equivalent to at least a University of Toronto mid-B in the final year or over senior courses.
 - Three letters of reference.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must demonstrate proficiency in English using one of the official methods specified in the General Regulations of the School of Graduate Studies.

Program Requirements

- Both the Statistical Theory and Applications field and the Probability field have the same program requirements. All programs must be approved by the Associate Chair for Graduate Studies.

Full-Time Program

- Students must complete a total of 4.0 full-course equivalents (FCEs), of which 2.0 must be chosen from the list below:
 - STA 2101H *Methods of Applied Statistics I*
 - STA 2201H *Methods of Applied Statistics II*
 - STA 2111H *Probability Theory I*

- STA 2211H *Probability Theory II*
- STA 2112H *Mathematical Statistics I*
- STA 2212H *Mathematical Statistics II*
- STA 3000Y *Advanced Theory of Statistics*.
- The remaining 2.0 FCEs may be selected from:
 - any Department of Statistical Sciences 2000-level course or higher
 - any 1000-level course or higher in another graduate unit at the University of Toronto with sufficient statistical, computational, probabilistic, or mathematical content
 - one 0.5 FCE as a reading course
 - one 0.5 FCE as a research project
 - a maximum of 1.0 FCE from any STA 4500-level modular course (each are 0.25 FCE).
- All programs must be approved by the Associate Chair for Graduate Studies. Students must meet with the Associate Chair to ensure that their program meets the requirements and is of sufficient depth.

Part-Time Program

- Students must satisfy the program requirements outlined for the full-time MSc.
- Students are limited to taking 1.0 full-course equivalent (FCE) during each session. In exceptional cases, the Associate Chair for Graduate Studies may approve 1.5 FCE in a given session. Both the Statistical Theory and Applications field and the Probability field are open to part-time students.

Program Length

3 sessions full-time (typical registration sequence: F/W/S);

6 sessions part-time

Time Limit

3 years full-time;

6 years part-time

Doctor of Philosophy

Minimum Admission Requirements

- Admission to the PhD program is competitive, and applicants are admitted under the General Regulations of the School of Graduate Studies.
- Students may be accepted through one of two routes: a master's degree or by direct entry through a bachelor's degree. Successful applicants present either:
 1. A master's degree in statistics from a recognized university with at least a B+ average. Applicants with degrees in biostatistics, computer science, economics, engineering, mathematics, physics, or any discipline where there is a significant quantitative component will be also be considered.
 2. A bachelor's degree in statistics from a recognized university with at least an A- average. The department also encourages applicants

Degree and Diploma Programs by Graduate Unit

from biostatistics, computer science, economics, engineering, mathematics, physics, or any discipline where there is a significant quantitative component.

- Three letters of recommendation.
- A letter of intent or personal statement outlining goals for graduate studies.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must demonstrate proficiency in English using one of the official methods specified in the General Regulations of the School of Graduate Studies.

Program Requirements

Fields: Statistical Theory and Applications

Probability

Course Requirements:

- During the first year of study, students are required to complete the following 3.0 full-course equivalents (FCEs):
 - STA 2111H *Probability Theory I*
 - STA 2211H *Probability Theory II*
 - STA 2101H *Methods of Applied Statistics I*
 - STA 2201H *Methods of Applied Statistics II*
 - STA 3000Y *Advanced Theory of Statistics*

Comprehensive Examination Requirements:

- At the end of the first year, students must attempt the following comprehensive examinations:
 - Probability
 - Theoretical Statistics
 - Applied Statistics

All three examinations must be passed by the end of the second year.

Thesis Requirements:

Conducting original research is the most important part of doctoral work. The thesis document must constitute significant and original contribution to the field. Students will have yearly meetings with a committee of no less than three faculty members to assess their progress. The completed thesis must be presented and defended within the Department of Statistical Sciences in addition to being presented and defended at the School of Graduate Studies.

Residency Requirements:

Students must also satisfy a two-year residency requirement.

Program Requirements

Field: Actuarial Science and Mathematical Finance

Course Requirements:

- During the first year of study, students are required to complete the following 3.0 full-course equivalents (FCEs):

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1. All of:
 - STA 2111H *Probability Theory I*,
 - STA 2211H *Probability Theory II*, and
 - STA 2503H *Applied Probability for Mathematical Finance*
2. One of:
 - STA 4246H *Research Topics in Mathematical Finance* or
 - STA 2501H *Mathematical Risk Theory*
3. Either:
 - STA 3000Y *Advanced Theory of Statistics* or
 - STA 2101H *Methods of Applied Statistics I* and
 - STA 2201H *Methods of Applied Statistics II*

Comprehensive Examination Requirements:

- At the end of the first year, students must attempt the following comprehensive examinations:
 - Probability
 - Actuarial Science and Mathematical Finance
 - Theoretical Statistics or Applied Statistics

All three examinations must be passed by the end of the second year.

Thesis Requirements:

Conducting original research is the most important part of doctoral work. The thesis document must constitute significant and original contribution to the field. Students will have yearly meetings with a committee of no less than three faculty members to assess their progress. The completed thesis must be presented and defended within the Department of Statistical Sciences in addition to being presented and defended at the School of Graduate Studies.

Residency Requirements:

Students must also satisfy a two-year residency requirement.

Direct-Entry PhD Program Requirements

The program requirements are identical to the regular PhD program in the respective fields with the exception that students must complete an additional 2.0 FCEs at the graduate level. The additional courses must be approved by the Associate Chair of Graduate Studies.

Residency Requirements:

Students must also satisfy a three-year residency requirement.

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 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 2047H	Stochastic Calculus
STA 2080H	Fundamentals of Statistical Genetics
STA 2100H	Mathematical Methods for Statistics
STA 2101H	Methods of Applied Statistics I
STA 2102H	Computational Techniques in Statistics
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 2342H	Multivariate Analysis I
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 3431H	Monte Carlo Methods
STA 4000H, Y	Supervised Reading Project I
STA 4001H, Y	Supervised Reading Project II
STA 4002H	Supervised Reading Project for an Advanced Special Topic
STA 4246H	Research Topics in Mathematical Finance
STA 4247H	Point Processes, Noise, and Stochastic Analysis
STA 4273H	Research Topics in Statistical Machine Learning
STA 4315H	Computational Methods in Statistical Genetics
STA 4364H	Conditional Inference: Sample Space Analysis
STA 4412H	Topics in Theoretical Statistics Modular Courses

Note: The following **modular** courses are each worth 0.25 full-course equivalents (FCEs).

STA 4500H	Statistical Dependence: Copula Models and Beyond
STA 4501H	Functional Data Analysis and Related Topics
STA 4502H	Monte Carlo Estimation
STA 4503H	Advanced Monte Carlo Methods and Applications
STA 4504H	An Introduction to Bootstrap Methods
STA 4505H	Applied Stochastic Control: High Frequency and Algorithmic Trading
STA 4506H	Non-stationary Time Series Analysis
STA 4507H	Extreme Value Theory and Applications
STA 4508H	Topics in Likelihood Inference
STA 4509H	Insurance Risk Models I
STA 4510H	Insurance Risk Models II
STA 4511H	Statistical Issues in Number Theory
STA 4512H	Logical Foundations of Statistical Inference
STA 4513H	Statistical Models of Networks, Graphs, and Other Relational Structures
STA 4514H	Modelling and Analysis of Spatially Correlated Data
STA 4516H	Topics in Probabilistic Programming

Graduate Faculty

Full Members

Badescu, Andrei - BSc, MSc, DPhil
 Brenner, David - BSc, MSc, PhD
 Broverman, Samuel - BSc, MSc, PhD
 Brunner, Lawrence - BA, MA, PhD, DPhil
 Corey, Paul - BSc, MA, PhD
 Craiu, Virgil Radu - BSc, MSc, PhD
 Escobar, Michael - BS, PhD
 Evans, Michael - BSc, MSc, PhD
 Feuerverger, Andrey - BSc, PhD
 Jackson, Kenneth - BSc, MSc, PhD
 Jaimungal, Sebastian - BSc, MSc, PhD
 Knight, Keith - BSc, MS, PhD
 Lin, Xiaodong - BSc, MSc, MMath, PhD
 Lou, Wen-Yi Wendy - DPhil
 McDunnough, Philip - BSc, MSc, PhD
 Neal, Radford - BSc, MSc, PhD
 Quastel, Jeremy - BSc, MS, PhD
 Reid, Nancy - BM, MSc, PhD, FRSC
 Rosenthal, Jeffrey - BSc, AM, PhD, FRSC
 Seco, Luis - PhD
 Stafford, James - BS, MS, PhD (**Chair and Graduate Chair**)
 Sun, Lei - BS, PhD
 Virag, Balint - BA, MA, PhD
 Yao, Fang - BSc, MSc, DPhil (**Associate Chair, Graduate Studies**)

Members Emeriti

Andrews, David - BSc, MSc, PhD
 Fraser, Donald AS - BA, MA, PhD, FRSC
 Guttman, Irwin - BSc, MA, PhD
 Srivastava, Muni - MSc, PhD

Associate Members

Burkett, Craig - BASc, MSc
 Gibbs, Alison - BSc, MSc, PhD
 Kreinin, Alexander - MSc, PhD
 Roy, Daniel - BS, MEng, PhD
 Rubisov, Dmitri - ME, PhD
 Salakhutdinov, Ruslan - BS, MS, PhD
 Tomal, Javed Hossain - BS, MS, PhD
 Willmot, Gordon - BMATH, MMath, PhD
 Wu, Hau-tieng - PhD
 Wu, Yichao - PhD

Theoretical Astrophysics

Faculty Affiliation

Arts and Science

Degree Programs

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 inquire. 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) /
L'institut canadien d'astrophysique thorique (ICAT)
University of Toronto
Room 1403, McLennan Physical Laboratories
Toronto, Ontario M5S 3H8
Canada

Graduate Faculty

Full Members

Bond, J Richard - BSc, MS, PhD, FRSC, FRS
Green, Daniel - PhD
Martin, Peter - BSc, MSc, PhD, FRSC
Murray, Norman - BSc, PhD, CRC (**Director**)
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - MSc, PhD, CRC
Thompson, Christopher - BSc, PhD

Women and Gender Studies

Faculty Affiliation

Arts and Science

Degree Programs

Women and Gender Studies

MA

PhD

Overview

The Women and Gender Studies Institute (WGSi) offers a program leading to the **Master of Arts** and the **Doctor of Philosophy** degrees in Women and Gender Studies. The Master's Program in Women and Gender Studies (MWGS) focuses on feminist colonial, post-colonialism, diasporic, and transnational studies as rubrics for studying 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.

The PhD has four emphases: (1) gender, sexuality, and queer studies; (2) feminist cultural studies; (3) feminist studies of technology, science, environment, and biomedicine; and (4) transnational political economy and development studies. Our offerings bring feminist scholarship to the tasks of challenging and investigating colonial, postcolonial, 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, PhD

Degree and Diploma Programs by Graduate Unit

6. **Environment and Health**
 - Women and Gender Studies, MA, PhD
7. **Environmental Studies**
 - Women and Gender Studies, MA, PhD
8. **Ethnic and Pluralism Studies**
 - Women and Gender Studies, MA, PhD
9. **Jewish Studies**
 - Women and Gender Studies, MA
10. **Sexual Diversity Studies**
 - Women and Gender Studies, MA, PhD
11. **South Asian Studies**
 - Women and Gender Studies, MA, PhD
12. **Women's Health**
 - Women and Gender Studies, MA, PhD
13. **Workplace Learning and Social Change**
 - Women and Gender Studies, MA

Contact and Address

Web: www.wgsi.utoronto.ca/graduate

Email: grad.womenstudies@utoronto.ca

Telephone: (416) 978-3668

Fax: (416) 946-5561

Graduate Program in Women and Gender Studies
Women and Gender Studies Institute, University of Toronto

Wilson Hall, New College, 40 Willcocks Street
Toronto, Ontario M5S 1C6 Canada

Degree Programs Women and Gender Studies

Master of Arts

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Women and Gender Studies Institute's additional admission requirements stated below.
- 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, and transcripts from all post-secondary institutions.

Program Requirements

- The student's program of study must be approved by the Women and Gender Studies Institute. Total of 3.5 full-course equivalents (FCEs) as follows:
 - 0.5 core FCEs in women and gender studies (WGS 5000H)
 - 1.0 elective FCE in women and gender studies; either a special topics seminar (please see

Degree and Diploma Programs by Graduate Unit

course list of special topics seminars), an independent research/reading course (WGS 1007H), or a practicum extending over both the Fall and Winter sessions (WGS 1006H⁰)

- 1.0 FCE *MA Research Paper* (WGS 1005Y)
- 1.0 FCE (one year-long or two half-year courses) offered by other departments and chosen in consultation with the faculty advisor
- The MA degree program is not offered on a part-time basis.

Program Length

3 sessions full-time (typical registration sequence: F/W/S)

Time Limit

3 years full-time

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

Doctor of Philosophy

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Women and Gender Studies Institute's additional admission requirements stated below.
- A master's degree in women and gender studies, or a master's degree in a related discipline from a recognized university. Applicants must have obtained an average of A- or better in the master's program.
- Direct entry: In exceptional cases, direct-entry admission is also offered to outstanding students with a bachelor's degree in women and gender studies or a related area, from a recognized university. Direct-entry students must have a cumulative average of A or above. Applicants must also have obtained an average equivalent to an A- 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, a writing sample, and transcripts from all post-secondary institutions.

Program Requirements

- The student's program of study must be approved by the Women and Gender Studies Institute.
- **For students with a master's degree:** 3.0 full-course equivalents (FCEs) as follows:
 - 1.0 FCE in Women and Gender Studies (WGS 5000H and WGS 5001H). Students who have already taken these courses, or their equivalent, will be required to enrol in alternate course selections, with institute approval.
 - 0.5 elective FCE in Women and Gender Studies.

- 1.5 FCEs offered in Women and Gender Studies or by other graduate units and chosen in consultation with the student's faculty advisor.

All coursework should normally be completed by the end of Year 1 of PhD study.

- **For direct-entry students:** 5.0 full-course equivalents (FCEs) as follows:
 - 1.0 FCE in Women and Gender Studies (WGS 5000H and WGS 5001H).
 - 2.0 elective FCEs in Women and Gender Studies.
 - 2.0 FCEs offered in Women and Gender Studies or by other graduate units and chosen in consultation with the student's faculty advisor.

All coursework should normally be completed by the end of Year 2 of PhD study.

- The other program requirements for all PhD students are:
 1. Completion of WGS 2000H, a credit/non-credit course, requiring participation in the WGS Research Seminar Series. Normally, students will enrol in WGS 2000H in Year 1 of their PhD program. Attendance at 80% of the seminars is required. After completion of this course, students are recommended to attend this seminar regularly, as a crucial part of their graduate education. In addition, students must present their research in the seminar once before graduating.
 2. Completion of two comprehensive exams, one in a major and one in a minor field of study, defined in consultation with the advisor and other committee members. Examinations are marked on a pass/fail basis. Candidates are allowed two attempts to pass a comprehensive examination. A failure to pass on the second attempt results either in the student's voluntary withdrawal from the program, or a recommendation by the institute for termination of the student's registration in the program. For students admitted with an MA degree, comprehensives should be completed by June 1 of Year 2. For direct-entry students, comprehensives should be completed by December 1 of Year 3.
 3. Completion of a PhD dissertation based on original research conducted by the candidate on an approved topic in women and gender studies, and successful defence at the SGS Final Oral Examination. For students admitted with an MA degree, the dissertation proposal should be accepted no later than June 1 of Year 2. For direct-entry students, the dissertation proposal should be accepted no later than April 1 of Year 3.
 4. Each student will meet at least annually with their supervisor and other doctoral committee members to review academic progress and to consult about future directions.

Program Length

4 years full-time; 5 years full-time, direct-entry

Time Limit

6 years full-time; 7 years direct-entry

Course List

WGS 1003H	Special Topics in Feminist Studies
WGS 1004H	Special Topics in Feminist Theory
WGS 1005Y	MA Research Paper
WGS 1006H ⁰	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 Race and Feminism
WGS 1027H	Special Topics in Queer Studies and Feminism
WGS 5000H	Feminist Theories, Histories, Movements I
WGS 5001H	Feminist Theories, Histories, Movements II

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

Graduate Faculty

Full Members

Alexander, Mary (Jacqui) - BSW, MA, PhD
 Bamford, Sandra - BA, MA, MPA, PhD
 Bhuyan, Rupaleem - BA, MA, PhD
 Boddy, Janice - BA, MA, PhD
 Boler, Megan - BA, PhD
 Brown, Elspeth - MA, PhD
 Cobb, Michael - BA, MA, AM, PhD
 Coloma, Roland Sintos - TD, BA, MA, MA, PhD
 Coluppar, Corinn - BA, PhD
 Cossman, Brenda - LLB, LLM
 Cowen, Deborah - BA, MCP, PhD
 Dave, Prakruti - BA, MA, PhD
 Dehli, Kari - BA, MA, PhD
 Fox, Bonnie - AB, PhD
 Georgis, Dina - PhD
 Keith, Alison - BA, MA, PhD, FRSC
 Klassen, Pamela - BA, MA, PhD
 Kuokkanen, Rauna - MA, MA, PhD
 Larkin, June - PhD
 Larson, Katherine - BMus, AB, MPH, PhD
 Magnusson, Jamie-Lynn - BA, MA, PhD
 McElhinny, Bonnie - BA, MA, MA, PhD, PhD
 Miles, Angela - BA, MA, PhD
 Mirchandani, Kiran - BA, MPH, PhD
 Mojab, Shahrzad - BA, MEd, EdD
 Morgenstern, Naomi - BA, MA, PhD
 Murphy, Michelle - BA, PhD
 Murray, Heather - BA, MA, PhD
 Newton, Melanie - BA, PhD
 Nyquist, Mary - BA, MA, PhD
 Rankin, Katharine - BA, MA, PhD
 Razack, Sherene - BA, MA, PhD
 Rittich, Kerry - BAMus, LLB, SJD
 Ruddick, Susan - PhD
 Salih, Sara - BA, DPhil
 Song, Jesook - BA, PhD
 Sykes, Heather - BSc, PhD
 Tahmasebi-Birgani, Victoria - MA, PhD
 Taylor, Judith - BA, PhD
 Titchkosky, Tanya - BA, MA, PhD
 Trotz, Alissa - AB, MPH, PhD
 Valverde, Mariana - BA, MA, PhD, FRSC
 Walcott, Rinaldo - BA, MA, PhD (**Director; Acting Graduate Coordinator**)
 Wane, Njoki - BE, MSc, MEd, PhD
 Yoneyama, Lisa - BA, MA, PhD

Members Emeriti

Armatage, Kay - BA, MA, PhD
 Associate Members
 Goldstein, Tara - BA, PhD
 Recollet, Karyn - PhD

Combined Degree Programs

Combined Degree Programs

The University of Toronto offers over 35 combined degree programs (CDPs). This program category allows a student to study in two approved degree programs at the same time and to complete the requirements of both, providing a distinctive academic benefit to the student either through academic enrichment or academic acceleration. CDPs build on a strong academic rationale or synergy between the programs in the combination.

CDPs may embody the following combinations:

- undergraduate/graduate
- second-entry undergraduate/graduate
- graduate/graduate.

A CDP is an entity; the student is registered in a CDP as well as in the two participating degree programs. On successful completion of the CDP, the student receives two degrees.

Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Major in Communication, Culture, Information and Technology / Master of Information** allows students to complete both degrees in 5.5 years rather than the 6 years it would take to acquire them independently.

Applicants must select one of the following concentrations when they apply to the MI program:

- Critical Information Policy Studies;
- Culture and Technology;
- Information Systems and Design;
- Knowledge Management and Information Management;
- Knowledge Media Design.

Undergraduate students apply to the MI program in Year 3.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Communication, Culture, Information and Technology, Honours BA
Information, MI

Minimum Admission Requirements

- Applicants must apply to and be accepted by one of the BA programs at UTM and the MI program in the Faculty of Information. Applicants must satisfy the admission requirements of each program. Undergraduate students apply to the master's program in Year 3.
- Students must be enrolled full-time in the BA program and be in good standing in the BA program with a cumulative grade point average (CGPA) of no less than 3.7 In Year 2 to be admissible; students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Qualified students in Year 3 of the BA program may apply to the MI program; those accepted will receive a conditional offer to commence the MI program when the BA program requirements have been completed.
- Admission into the MI program will have three conditions: students must (1) maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the BA, (2) complete BA requirements, and (3) demonstrate BA degree conferral.

Program Requirements

- Students in the combined program must meet the full academic program requirements of the BA program and the MI program.
- Throughout the BA program, students must be registered full-time, enrolling in 5.0 FCEs each year.
- Students who receive conditional offers of admission to the MI program during Year 3 of the BA program and complete the BA program requirements in Year 4 will commence the MI during Year 5 of the combined program.
- In Year 4, students must take:
 - INF 1005H and INF 1006H (0.25 FCE each) from the MI program; these courses will count as electives in the BA program
 - courses from one of the following five MI concentrations (1.5 FCEs); these courses will count towards the breadth requirement for the BA:
 - Critical Information Policy Studies: INF 1001H; INF 2181H; INF 2198H
 - Culture and Technology: INF 1501H; INF 1502H; INF 1240H
 - Information Systems and Design: INF 1340H; INF 1341H; INF 2040H
 - Knowledge Management and Information Management: INF 1003H; INF 1230H; INF 1341H
 - Knowledge Media Design: KMD 1001H; KMD 1002H; KMD 2001H.
- In Years 5 and 6, students will complete an additional 6.0 FCEs from the concentration selected in the MI program. Consult the course list in the Information calendar entry.

Combined Degree Programs

Registration Path to Completion

Year	Session	BA	MI
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		
Year 6	Fall		Full-time
	Winter		
	Summer		

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Communication, Culture, Information and Technology (Major) Program
Institute of Communication, Culture, Information and Technology
Web: www.utm.utoronto.ca/iccit
Email: iccit.utm@utoronto.ca

Master of Information Program
Faculty of Information
Web: www.ischool.utoronto.ca
Email: inquire@ischool.utoronto.ca

Digital Enterprise Management (Specialist), Honours Bachelor of Arts / Master of Information

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Specialist in Digital Enterprise Management / Master of Information** allows students to complete both degrees in 5.5 years rather than the 6 years it would take to acquire them independently.

Applicants must select one of the following concentrations when they apply to the MI program:

- Critical Information Policy Studies;
- Culture and Technology;
- Information Systems and Design;
- Knowledge Management and Information Management;
- Knowledge Media Design.

Undergraduate students apply to the MI program in Year 3.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Digital Enterprise Management, Honours BA
Information, MI

Minimum Admission Requirements

- Applicants must apply to and be accepted by one of the BA programs at UTM and the MI program in the Faculty of Information. Applicants must satisfy the admission requirements of each program. Undergraduate students apply to the master's program in Year 3.
- Students must be enrolled full-time in the BA program and be in good standing in the BA program with a cumulative grade point average (CGPA) of no less than 3.7 In Year 2 to be admissible; students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Qualified students in Year 3 of the BA program may apply to the MI program; those accepted will receive a conditional offer to commence the MI program when the BA program requirements have been completed.
- Admission into the MI program will have three conditions: students must (1) maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the BA, (2) complete BA requirements, and (3) demonstrate BA degree conferral.

Program Requirements

- Students in the combined program must meet the full academic program requirements of the BA program and the MI program.
- Throughout the BA program, students must be registered full-time, enrolling in 5.0 FCEs each year.
- Students who receive conditional offers of admission to the MI program during Year 3 of the BA program and complete the BA program requirements in Year 4 will commence the MI during Year 5 of the combined program.
- In Year 4, students must take:
 - INF 1005H and INF 1006H (0.25 FCE each) from the MI program; these courses will count as electives in the BA program
 - courses from one of the following five MI concentrations (1.5 FCEs); these courses will count towards the breadth requirement for the BA:
 - Critical Information Policy Studies: INF 1001H; INF 2181H; INF 2198H
 - Culture and Technology: INF 1501H; INF 1502H; INF 1240H
 - Information Systems and Design: INF 1340H; INF 1341H; INF 2040H
 - Knowledge Management and Information Management: INF 1003H; INF 1230H; INF 1341H
 - Knowledge Media Design: KMD 1001H; KMD 1002H; KMD 2001H
- In Years 5 and 6, students will complete an additional 6.0 FCEs from the concentration selected in the MI program. Consult the course list in the Information calendar entry.

Combined Degree Programs

Registration Path to Completion

Year	Session	BA	MI
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		
Year 6	Fall		Full-time
	Winter		
	Summer		

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

UTM, Honours Bachelor of Arts, Specialist in Digital Enterprise Management / Master of Information

Digital Enterprise Management Program

Institute of Communication, Culture, Information and Technology

Web: www.utm.utoronto.ca/iccit/programs/programs-offered/digital-enterprise-management-dem

Email: iccit.utm@utoronto.ca

Master of Information Program

Faculty of Information

Web: www.ischool.utoronto.ca

Email: inquire@ischool.utoronto.ca

Engineering, Bachelor of Applied Science / Master of Business Administration

Overview

The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Management, Master of Business Administration, established by the Faculty of Applied Science and Engineering and the Rotman School of Management, provides a fast track for students to earn their bachelor's degree in engineering and an MBA in six years and eight months.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Engineering, BAsC

Management, MBA

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 fourth 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: 2F, 2W, 3F, 3W; 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 to 5:** complete engineering studies before entering MBA studies; participate in the Professional Experience Year (PEY) placement.
 - **Years 6 to 7:** complete the Rotman full-time MBA program.

Registration Path to Completion

Year	Session	BAsC	MBA
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4	Fall	PEY	
	Winter	PEY	
	Summer	PEY	
Year 5	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 6	Fall		Full-time

Combined Degree Programs

	Winter		Full-time
	Summer		
Year 7	Fall		Full-time
	Winter		Full-time
	Summer		

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Management, Master of Business Administration

www.undergrad.engineering.utoronto.ca/Programs/Skoll_Program.htm

www.rotman.utoronto.ca/Degrees/MastersPrograms/JointDegrees/SkollMBA.aspx

Bachelor of Applied Science Program

Faculty of Applied Science and Engineering

Email: engineering@ecf.utoronto.ca

Master of Business Administration Program

Rotman School of Management

Email: lpaterson@rotman.utoronto.ca

Environmental Biology (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Biology, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Biology (Specialist), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Civil Engineering, Master of Engineering

Environmental Biology Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Biology, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Biology (Specialist Co-op), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Civil Engineering, Master of Engineering

Environmental Biology Program

University of Toronto Scarborough

Web: www.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Chemistry (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Chemistry, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Chemistry (Specialist), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Civil Engineering, Master of Engineering

Environmental Chemistry Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Chemistry, Honours BSc
Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Chemistry (Specialist Co-op), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	

Combined Degree Programs

	Winter	Full-time	
	Summer ²		Full-time
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Civil Engineering, Master of Engineering

Environmental Chemistry Program

University of Toronto Scarborough

Web: www.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Chemistry (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Chemistry, Honours BSc

Chemical Engineering and Applied Chemistry, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Chemistry (Specialist), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the Master of Engineering program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		

Combined Degree Programs

Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Chemical Engineering and Applied Chemistry)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering

Environmental Chemistry Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: www.chem-eng.utoronto.ca/graduate/prospective/options/promas.htm

Email: admissgrad.chemeng@utoronto.ca

Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Chemistry, Honours BSc

Chemical Engineering and Applied Chemistry, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Chemistry (Specialist Co-op), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	

Combined Degree Programs

	Winter	Full-time	
	Summer ²		Full-time
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Chemical Engineering and Applied Chemistry)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering

Environmental Chemistry Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: www.chem-eng.utoronto.ca/graduate/prospective/options/promas.htm

Email: admissgrad.chemeng@utoronto.ca

Environmental Geoscience (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Geoscience, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Geoscience (Specialist), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Civil Engineering, Master of Engineering

Environmental Geoscience Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Geoscience, Honours BSc
Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Geoscience (Specialist Co-op), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	

Combined Degree Programs

	Winter	Full-time	
	Summer ²		Full-time
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Civil Engineering, Master of Engineering

Environmental Geoscience Program

University of Toronto Scarborough

Web: www.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Management (Major), Honours Bachelor of Arts / Sustainability Management, Master of Science

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Major in Environmental Management / Master of Science in Sustainability Management** allows students to complete an undergraduate degree with an early conditional admission offer to the MScSM program in their final year of study.

Although there is no acceleration in time to completion in this CDP (the program length remains at four years for the HBA and 20 months for the MScSM), students will benefit from early admission to the MScSM program, early exposure to graduate-level courses, and a reduced course load while completing their MScSM.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Management, Honours BA
Sustainability Management, MScSM

Application Process

- Applicants apply to the HBA program, the MScSM program, and the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study (after 15.0 credits have been completed).
- Applicants apply and interview for early conditional admission to the MScSM program with a minimum annual grade point average (AGPA) of 3.7 in their final 5.0 credits of study and conferral of their HBA degree.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MScSM program.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1	• Normally, 5.0 full-course equivalents (FCEs) towards the HBA program requirements.	<ul style="list-style-type: none"> • Students must complete a minimum of 2.0 FCEs in core courses: <ul style="list-style-type: none"> ◦ Introduction: ENV100Y5 (1.0 FCE). ◦ Foundation: 1.0 FCE chosen from ANT102H5, ECO100Y5, GGR111H5, PHL105Y5, POL112H5, POL113H5, POL114H5, SOC100H5. 	• Students are registered full-time in the HBA program.
2	• Normally, 5.0 FCEs towards the HBA program requirements.	<ul style="list-style-type: none"> • Students must complete a minimum of 2.5 FCEs in core courses: <ul style="list-style-type: none"> ◦ Environmental Management: ENV201H5 (0.5 FCE). ◦ Social Science/Humanities: 1.0 FCE chosen from ANT204Y5, ANT241Y5, ENG259H5, ENV250Y5, GGR202H5, GGR207H5, GGR208H5, GGR209H5, GGR210H5, GGR267H5, GGR269H5, GGR278H5, GGR288H5, PHL273H5. ◦ Science: 0.5 FCE chosen from BIO205H5, ERS201H5, GGR201H5, GGR214H5, GGR217H5, GGR227H5, PHY237H5. ◦ Analytical and Research Methods: 0.5 FCE chosen from GGR 276H5, GGR277H5, GGR278H5, STA220H5, or another 	• Students are registered full-time in the HBA program.

Combined Degree Programs

		program-relevant 200/300-level research methods course, with the program advisor's permission.	
3 and 4	<ul style="list-style-type: none"> Normally, 5.0 FCEs each year towards the HBA program requirements. In order to be eligible for the CDP, students must have completed a minimum of 15.0 FCEs by the end of Year 3. Students must complete all HBA program requirements (20.0 FCEs) by the end of Year 4, in order to fulfil the conditions of the MScSM offer. 	<ul style="list-style-type: none"> Students must complete a minimum of 3.5 FCEs in core courses: <ul style="list-style-type: none"> Environmental Management Perspectives: 1.0 FCE chosen from ANT357H5, ENV310H5, ENV393H5, HIS318H5, HIS319H5. Social, Economic, and Policy Perspectives: 1.5 FCEs chosen from ANT357H5, ANT368H5, ANT 370H5, ECO373H5, ENV310H5, ENV320H5, ENV345H5, ENV351H5, ENV420H5, ENV425H5, ENV452H5, GGR318H5, GGR329H5, GGR333H5, GGR348H5, GGR349H5, GGR361H5, GGR365H5, GGR370H5, GGR418H5, GGR419H5, GGR425H5, GGR426H5, JGE378H5, MGT394H5, PHL373H1, POL343Y5, SOC339H5, SOC349H5, SOC356H5, WRI375H5. Scientific Perspectives: 0.5 FCE chosen from BIO333H5, BIO464H5, ENV495H5, ENV496H5, ERS313H5, ERS315H5, ERS321H5, GGR305H5, GGR307H5, GGR309H5, GGR311H5, GGR317H5, GGR337H5, GGR374H5, GGR377H5, GGR384H5, GGR484H5, JGE378H5, SCI395H5, SCI396H5. Field, Project-Based, and Research Perspectives: 0.5 FCE chosen from ENV299Y5, ENV331H5, ENV332H5, ENV399Y5, GGR379H5, GGR389H5, JEG400Y5, JEG401Y5, or another program-relevant field, experiential, or research course, with the program advisor's permission. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1107H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, JPG 1408H, SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 2010H, SSM 2020H, or another program-relevant graduate course with the MScSM program director's permission. Once accepted to the CDP, students will work with the MScSM director to choose appropriate graduate-level courses to complete during their final undergraduate year. 	<ul style="list-style-type: none"> Students are registered full-time in the HBA program. Students apply to the CDP and the MScSM program at the end of Year 3. Students accepted to the CDP will receive a conditional offer of admission to the MScSM program. 1.0 FCE in MScSM courses is counted towards both the HBA and MScSM program requirements.
5 and 6	<ul style="list-style-type: none"> Students complete all MScSM program requirements with advanced standing of 1.0 FCE granted. Students complete an additional 8.0 FCEs towards the MScSM program requirements. 	<ul style="list-style-type: none"> Exact courses will vary based on the 1.0 FCE completed in Year 4. 5.0 to 6.0 FCEs in core courses: SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 1090H, SSM 1100Y, SSM 1110H. 2.0 to 3.0 FCEs in elective courses; examples include: <ul style="list-style-type: none"> science electives: EES 1107H, EES 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H, JPG 1408H; management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, RSM 2216H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from 2 to 4 months in length. 	<ul style="list-style-type: none"> Removal of conditions of admission to the MScSM program. Students begin graduate studies in the MScSM program in the Fall session of Year 5. Students are registered full-time in the MScSM program.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor

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Environmental Management Program

University of Toronto Mississauga

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Master of Science in Sustainability Management Program

Institute for Management and Innovation

Web: www.utm.utoronto.ca/mscsm/mscsm-program-overview

Email: mscsm.utm@utoronto.ca

Environmental Management (Specialist), Honours Bachelor of Arts / Sustainability Management, Master of Science

Overview

The **Combined Degree Program (CDP)**: UTM, Honours Bachelor of Arts, Specialist in Environmental Management / Master of Science in Sustainability Management allows students to complete an undergraduate degree with an early conditional admission offer to the MScSM program in their final year of study.

Although there is no acceleration in time to completion in this CDP (the program length remains at four years for the HBA and 20 months for the MScSM), students will benefit from early admission to the MScSM program, early exposure to graduate-level courses, and a reduced course load while completing their MScSM.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Management, Honours BA
Sustainability Management, MScSM

Application Process

- Applicants apply to the HBA program, the MScSM program, and the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study (after 15.0 credits have been completed).
- Applicants apply and interview for early conditional admission to the MScSM program with a minimum annual grade point average (AGPA) of 3.7 in their final 5.0 credits of study and conferral of their HBA degree.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MScSM program.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1	Normally, 5.0 full-course equivalents (FCEs) towards the HBA program requirements.	<ul style="list-style-type: none"> • Students must complete a minimum of 3.0 FCEs in core courses: <ul style="list-style-type: none"> ◦ Introduction: ENV100Y5 (1.0 FCE). ◦ Economics: ECO100Y5 (1.0 FCE). ◦ Foundation: 1.0 FCE chosen from ANT102H5, GGR111H5, PHL105Y5, POL112H5, POL113H5, POL114H5, SOC100H5. 	<ul style="list-style-type: none"> • Students are registered full-time in the HBA program.
2	Normally, 5.0 FCEs towards the HBA program requirements.	<ul style="list-style-type: none"> • Students must complete a minimum of 4.0 FCEs in core courses: <ul style="list-style-type: none"> ◦ Environmental Management: ENV201H5 (0.5 FCE). ◦ Social Science/Humanities: 1.5 FCEs chosen from ANT204Y5, ANT241Y5, ECO200Y5, ENG259H5, ENV250Y5, GGR202H5, GGR207H5, GGR208H5, GGR209H5, GGR210H5, GGR267H5, GGR269H5, GGR287H5, GGR288H5, MAT102H5, MAT133Y5, MAT134Y5, MAT135Y5, PHL273H5. ◦ Science: 1.0 FCE chosen from BIO201H5, BIO205H5, ERS201H5, ERS202H5, ERS203H5, GGR201H5, GGR214H5, GGR217H5, GGR227H5, PHY237H5. 	<ul style="list-style-type: none"> • Students are registered full-time in the HBA program.

Combined Degree Programs

		<ul style="list-style-type: none"> Statistics: 0.5 FCE chosen from GGR276H5, STA220H5, or other 200/300-level statistics course with the program advisor's permission. Analytical and Research Methods: 0.5 FCE chosen from GGR277H5, GGR278H5, STA221H5, or another program-relevant 200/300-level research methods course, with the program advisor's permission. 	
3 and 4	<ul style="list-style-type: none"> Normally, 5.0 FCEs each year towards the HBA program requirements. In order to be eligible for the CDP, students must have completed a minimum of 15.0 FCEs by the end of Year 3. Students must complete all HBA program requirements (20.0 FCEs) by the end of Year 4, in order to fulfil the conditions of the MScSM offer. 	<ul style="list-style-type: none"> Students must complete a minimum of 5.0 FCEs in core courses: <ul style="list-style-type: none"> Environmental Management Perspectives: 1.5 FCEs chosen from ANT357H5, ENV310H5, ENV393H5, HIS308H5, HIS319H5. Social, Economic, and Policy Perspectives: 2.0 FCEs chosen from ANT357H5, ANT368H5, ANT380H5, ECO373Y5, ENV320H5, ENV345H5, ENV351H5, ENV420H5, ENV425H5, ENV452H5, GGR318H5, GGR321H1, GGR329H5, GGR333H5, GGR348H5, GGR349H5, GGR361H5, GGR365H5, GGR370H5, GGR418H5, GGR419H5, GGR426H5, GGR493H5, JGE378H5, JUG320H1, MGT395H5, PHL373H1, POL343Y5, SOC339H5, SOC349H5, SOC356H5, WR1375H5. Scientific Perspectives: 0.5 FCE chosen from BIO333H5, BIO464H5, ENV495H5, ENV496H5, ERS313H5, ERS315H5, ERS321H5, GGR305H5, GGR307H5, GGR309H5, GGR311H5, GGR317H5, GGR337H5, GGR374H5, GGR377H5, GGR384H5, GGR484H5, JGE378H5, SCI395H5, SCI396H5. Field, Project-Based, and Research Perspectives: 1.0 FCE chosen from ENV299Y5, ENV331H5, ENV332H5, ENV399Y5, ENV497H5, ENV498Y5, GGR379H5, GGR389H5, JEG400Y5, JEG401Y5, SCI498H5, SCI499H5, or another program-relevant field, experiential, or research course, with the program advisor's permission. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1107H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, JPG 1408H, SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 2010H, SSM 2020H, or another program-relevant graduate course with the MScSM director's permission. Once accepted into the CDP, students will work with the MScSM director to choose appropriate graduate-level courses to complete during their final undergraduate year. 	<ul style="list-style-type: none"> Students are registered full-time in the HBA program. Students apply to the CDP and the MScSM program at the end of Year 3. Students accepted to the CDP will receive a conditional offer of admission to the MScSM program. 1.0 FCE in MScSM courses is counted towards both the HBA and MScSM program requirements.
5 and 6	<ul style="list-style-type: none"> Students complete all MScSM program requirements with advanced standing of 1.0 FCE granted. Students complete an additional 8.0 FCEs towards the MScSM 	<ul style="list-style-type: none"> Exact courses will vary based on the 1.0 FCE completed in Year 4. 5.0 to 6.0 FCEs in core courses: SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 1090H, SSM 1100Y, SSM 1110H. 2.0 to 3.0 FCEs in elective courses; examples include: <ul style="list-style-type: none"> science electives: EES 1107H, EES 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H, JPG 1408H; management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, RSM 2216H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from 2 to 4 months in length. 	

Combined Degree Programs

	program requirements.	
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Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor

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Environmental Management Program

University of Toronto Mississauga

Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=23

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Master of Science in Sustainability Management Program

Institute for Management and Innovation

Web: www.utm.utoronto.ca/mscsm/mscsm-program-overview

Email: mscsm.utm@utoronto.ca

Environmental Science (Major), Honours Bachelor of Science / Sustainability Management, Master of Science

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Environmental Science / Master of Science in Sustainability Management** allows students to complete an undergraduate degree with an early conditional admission offer to the MScSM program in their final year of study.

Although there is no acceleration in time to completion in this CDP (program length remains at four years for the HBSc and 20 months for the MScSM), students will benefit from early admission to the MScSM program, early exposure to graduate-level courses, and a reduced course load while completing their MScSM.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Science, Honours BSc
Sustainability Management, MScSM

Application Process

- Applicants apply to the HBSc program, the MScSM program, and the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study (after 15.0 credits have been completed).
- Applicants apply and interview for early conditional admission to the MScSM program with a minimum annual grade point average (AGPA) of 3.7 in their final 5.0 credits of study and conferral of their HBSc degree.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MScSM program.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1	<ul style="list-style-type: none"> • Normally, 5.0 full-course equivalents (FCEs) towards the HBSc program requirements. 	<ul style="list-style-type: none"> • Students must complete a minimum of 3.0 FCEs in core courses: <ul style="list-style-type: none"> ◦ Introduction: ENV100Y5 (1.0 FCE). ◦ Quantitative Foundation: 1.0 FCE chosen from MAT134Y5, MAT135Y5, MAT137Y5. ◦ Basic Science Foundation: 1.0 FCE chosen from BIO152H5, BIO153H5, CHM110H5, CHM120H5, GGR112H5, PHY135Y5, PHY136H5, PHY137H5. 	<ul style="list-style-type: none"> • Students are registered full-time in the HBSc program.
2	<ul style="list-style-type: none"> • Normally, 5.0 FCEs towards the HBSc program requirements. 	<ul style="list-style-type: none"> • Students must complete a minimum of 2.5 FCEs in core courses: <ul style="list-style-type: none"> ◦ Environmental Management: ENV201H5 (0.5 FCE). ◦ Biological and Ecological Perspectives: 0.5 FCE chosen from BIO202H5, BIO203H5, BIO205H5, BIO206H5. ◦ Geographical Perspectives: 0.5 FCE chosen from GGR201H5, GGR214H5, GGR217H5, GGR227H5. ◦ Physical and Chemical Perspectives: 0.5 FCE chosen from CHM231H5, CHM242H5, ERS201H5, JCP221H5, PHY237H5. ◦ Analytical and Research Methods: 0.5 FCE chosen from BIO360H5, CHM211H5, GGR276H5, STA220H5, or another 	<ul style="list-style-type: none"> • Students are registered full-time in the HBSc program.

Combined Degree Programs

		program-relevant 200/300-level research methods course (SCI) with the program advisor's permission.	
3 and 4	<ul style="list-style-type: none"> Normally, 5.0 FCEs each year towards the HBSc program requirements. In order to be eligible for the CDP, students must have completed a minimum of 15.0 FCEs by the end of Year 3. Students must complete all HBSc program requirements (20.0 FCEs) by the end of Year 4, in order to fulfil the conditions of the MScSM offer. 	<ul style="list-style-type: none"> Students must complete a minimum of 2.5 FCEs in core courses: <ul style="list-style-type: none"> Environmental Science: ENV330H5 (0.5 FCE). Field, Project-Based, and Research Perspectives: 0.5 FCE chosen from ANT318H5, BIO3313H5, BIO329H5, BIO416H5, ERS325H5, ENV229Y5, ENV331H5, ENV332H5, ENV399Y5, GGR379H5, JEG400Y5, JEG401Y5, SCI395H5, SCI396H5, SCI498H5, SCI499H5, or another program-relevant field course (SCI) with the program advisor's permission. Biogeochemical Perspectives: 1.0 FCE chosen from BIO311H5, BIO312H5, BIO318Y5, BIO328H5, BIO330H5, BIO333H5, BIO373H5, BIO405H5, BIO406H5, BIO436H5, BIO464H5, CHM310H5, CHM311H5, CHM331H5, CHM333H5, CHM347H5, CHM361H5, CHM362H5, CHM391H5, CHM393H5, ENV495H5, ENV496H5, ERS313H5, ERS315H5, ERS321H5, GGR305H5, GGR307H5, GGR309H5, GGR311H5, GGR312H5, GGR315H5, GGR316H5, GGR317H5, GGR338H5, GGR372H5, GGR374H5, GGR377H5, GGR403H1, GGR406H5, GGR407H5, GGR409H1, GGR413H1, GGR463H5, GGR464H5, GGR479H5, JGE378H5, PHY331H5. Social, Economic, and Policy Perspectives: 0.5 FCE chosen from ANT357H5, ANT368H5, ECO373Y5, ENV250Y5, ENV310H5, ENV320H5, ENV345H5, ENV393H5, ENV420H5, ENV425H5, GGR318H5, GGR329H5, GGR333H5, GGR348H5, GGR349H5, GGR361H5, GGR365H5, GGR370H5, GGR418H5, GGR419H5, GGR420H5, HIS318H5, HIS319H5, JGE378H5, MGT394H5, PHL255H5, PHL273H5, PHL373H1, POL343Y5, SOC226H5, SOC339H5, SOC356H5, WRI375H5. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1107H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, JPG 1408H, SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 2010H, SSM 2020H, or another program-relevant graduate course with the MScSM director's permission. Once accepted into the CDP, students will work with the MScSM director to choose appropriate graduate-level courses to complete during their final undergraduate year. 	<ul style="list-style-type: none"> Students are registered full-time in the HBSc program. Students apply to the CDP and the MScSM program at the end of Year 3. Students accepted to the CDP will receive a conditional offer of admission to the MScSM program. 1.0 FCE in MScSM courses is counted towards both the HBSc and MScSM program requirements.
5 and 6	<ul style="list-style-type: none"> Students complete all MScSM program requirements with advanced standing of 1.0 FCE granted. Students complete an additional 8.0 FCEs towards the MScSM program requirements. 	<ul style="list-style-type: none"> Exact courses will vary based on the 1.0 FCE completed in Year 4. 5.0 to 6.0 FCEs in core courses: SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 1090H, SSM 1100Y, SSM 1110H. 2.0 to 3.0 FCEs in elective courses; examples include: <ul style="list-style-type: none"> science electives: EES 1107H, EES 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H, JPG 1408H; management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, RSM 2216H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from two to four months in length. 	<ul style="list-style-type: none"> Removal of conditions of admission to the MScSM program. Students begin graduate studies in the MScSM program in the Fall session of Year 5. Students are registered full-time in

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

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Environmental Science Program

University of Toronto Mississauga

Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=24

Email: sabrina.ferrari@utoronto.ca

Master of Science in Sustainability Management Program

Institute for Management and Innovation

Web: www.utm.utoronto.ca/mscsm/mscsm-program-overview

Email: mscsm.utm@utoronto.ca

Environmental Science (Specialist), Honours Bachelor of Science / Sustainability Management, Master of Science

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Environmental Science / Master of Science in Sustainability Management** allows students to complete an undergraduate degree with an early conditional admission offer to the MScSM program in their final year of study.

Although there is no acceleration in time to completion in this CDP (the program length remains at four years for the HBSc and 20 months for the MScSM), students will benefit from early admission to the MScSM program, early exposure to graduate-level courses, and a reduced course load while completing their MScSM.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Science, Honours BSc
Sustainability Management, MScSM

Application Process

- Applicants apply to the HBSc program, the MScSM program, and the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study (after 15.0 credits have been completed).
- Applicants apply and interview for early conditional admission to the MScSM program with a minimum annual grade point average (AGPA) of 3.7 in their final 5.0 credits of study and conferral of their HBSc degree.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies and the MScSM program.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1	• Normally, 5.0 full-course equivalents (FCEs) towards the HBSc program requirements.	• Students must complete a minimum of 4.0 FCEs in core courses: <ul style="list-style-type: none">◦ Introduction: ENV100Y5 (1.0 FCE).◦ Quantitative Foundation: 1.0 FCE chosen from MAT134Y5, MAT135Y5, MAT137Y5.◦ Basic Science Foundation: 2.0 FCEs chosen from BIO152H5, BIO153H5, CHM110H5, CHM120H5, GGR112H5, PHY135Y5, PHY136H5, PHY137H5.	• Students are registered full-time in the HBSc program.
2	• Normally, 5.0 FCEs towards the HBSc program requirements.	• Students must complete a minimum of 4.0 FCEs in core courses: <ul style="list-style-type: none">◦ Environmental Management: ENV201H5 (0.5 FCE).◦ Biological and Ecological Perspectives: 0.5 FCE chosen from BIO202H5, BIO203H5, BIO205H5, BIO206H5.◦ Geographical Perspectives: 0.5 FCE chosen from GGR201H5, GGR214H5, GGR217H5, GGR227H5.◦ Earth Science Perspectives: ERS201H5 (0.5 FCE).	

Combined Degree Programs

		<ul style="list-style-type: none"> Physical and Chemical Perspectives: 1.0 FCE chosen from CHM231H5, CHM242H5, ERS202H5, ERS203H5, JCP221H5, PHY237H5. Analytical and Research Methods: 0.5 FCE chosen from BIO360H5, BIO361H5, CHM211H5, GGR276H5, STA220H5, STA221H5. Additional Analytical and Research Methods: 0.5 FCE chosen from the course list above or GGR278H5, GGR337H5, GGR308H5. 	
3 and 4	<ul style="list-style-type: none"> Normally, 5.0 FCEs each year towards the HBSc program requirements. In order to be eligible for the CDP, students must have completed a minimum of 15.0 FCEs by the end of Year 3. Students must complete all HBSc program requirements (20.0 FCEs) by the end of Year 4, in order to fulfil the conditions of the MScSM offer. 	<ul style="list-style-type: none"> Students must complete a minimum of 4.0 FCEs in core courses: <ul style="list-style-type: none"> Environmental Science: ENV330H5 (0.5 FCE). Field Perspectives: 0.5 FCE chosen from ANT318H5, BIO313H5, BIO329H5, BIO416H5, ENV331H5, ERS325H5, GGR379H5, GGR390H1, or another program-relevant field course (SCI) with the program advisor's permission. Field, Project-Based, and Research Perspectives: 1.0 FCE chosen from BIO400Y5, ENV332H5, ENV399Y5, ENV497H5, ENV498Y5, GGR417Y5, JEG400Y5, JEG401Y5, SCI395H5, SCI396H5, SCI498H5, SCI499H5, or another program-relevant, project-based research course (SCI) with the program advisor's permission. Biogeochemical Perspectives: 1.5 FCEs chosen from BIO311H5, BIO312H5, BIO318Y5, BIO328H5, BIO330H5, BIO333H5, BIO373H5, BIO405H5, BIO406H5, BIO436H5, BIO464H5, CHM310H1, CHM311H5, CHM331H5, CHM333H5, CHM347H5, CHM361H5, CHM362H5, CHM391H5, CHM393H5, CHM416H5, ENV490H5, ENV491H5, ENV495H5, ENV496H5, ERS313H5, ERS315H5, ERS321H5, GGR305H5, GGR307H5, GGR309H5, GGR311H5, GGR312H5, GGR315H5, GGR316H5, GGR317H5, GGR338H5, GGR372H5, GGR374H5, GGR375H5, GGR377H5, GGR384H5, GGR403H1, GGR406H5, GGR407H5, GGR409H1, GGR413H1, GGR463H5, GGR464H5, GGR479H5, GGR484H5, JGE378H5, PHY331H5. Social, Economic, and Policy Perspectives: 0.5 FCE chosen from ANT357H5, ANT368H5, ECO373Y5, ENV250Y5, ENV310H5, ENV320H5, ENV345H5, ENV351H5, ENV393H5, ENV420H5, ENV425H5, ENV452H5; GGR318H5, GGR329H5, GGR333H5, GGR348H5, GGR349H5, GGR361H5, GGR365H5, GGR370H5, GGR418H5, GGR419H5, GGR420H5, GGR426H5, JGE378H5, HIS318H5, HIS319H5, MGT394H5, PHL273H5, PHL373H1, POL343Y5, SOC226H5, SOC339H5, SOC356H5, WRI375H5. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1107H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, JPG 1408H, SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 2010H, SSM 2020H or another program-relevant graduate course with the MScSM director's permission. Once accepted to the CDP, students will work with the MScSM director to choose appropriate graduate-level courses to complete during their final undergraduate year. 	<ul style="list-style-type: none"> Students are registered full-time in the HBSc program. Students apply to the CDP and the MScSM program at the end of Year 3. Students accepted to the CDP will receive conditional offer of admission to the MScSM program. 1.0 FCE in MScSM courses is counted towards both the HBSc and MScSM program requirements.
5 and 6	<ul style="list-style-type: none"> Students complete all MScSM program requirements 	<ul style="list-style-type: none"> Exact courses will vary based on the 1.0 FCE completed in Year 4. 5.0 to 6.0 FCEs in core courses: SSM 1010Y, SSM 1020H, SSM 1030H, SSM 1040H, SSM 1050H, SSM 1060H, SSM 1070H, SSM 1080H, SSM 1090H, SSM 1100Y, SSM 1110H. 2.0 to 3.0 FCEs in elective courses; examples include: 	

Combined Degree Programs

	<p>with advanced standing of 1.0 FCE granted.</p> <ul style="list-style-type: none"> Students complete an additional 8.0 FCEs towards the MScSM program requirements. 	<ul style="list-style-type: none"> science electives: EES 1107H, EES 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H, JPG 1408H; management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, RSM 2216H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from 2 to 4 months in length. 	
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Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor
 UTM, Honours Bachelor of Science, Specialist in Environmental Science / Master of Science in Sustainability Management
 Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=24
 Email: sabrina.ferrari@utoronto.ca

Environmental Science Program
 University of Toronto Mississauga
 Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=24
 Email: sabrina.ferrari@utoronto.ca

Master of Science in Sustainability Management Program
 Institute for Management and Innovation
 Web: www.utm.utoronto.ca/mscsm/mscsm-program-overview
 Email: mscsm.utm@utoronto.ca

Environmental Physics (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Physics, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Physics (Specialist), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Civil Engineering, Master of Engineering

Environmental Physics Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Civil Engineering, Master of Engineering** is a five-year program that can be completed in less time than it would take to complete the two degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Environmental Physics, Honours BSc

Civil Engineering, MEng

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the respective admission requirements.
- Each student in the CDP shall meet the admission requirements of each program.
- To be eligible for admission into the MEng and the CDP, students must be enrolled and in good standing in the Environmental Physics (Specialist Co-op), Honours BSc program with a B+ average or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Admission into the MEng program is conditional upon students maintaining at least a B+ average in Years 3 and 4 of the BSc.
- Applications will be accepted in Year 3 of full-time registration in the BSc program.

Program Requirements

- The full academic program requirements of both programs (BSc/MEng) will be met by students in the CDP.
- Students are required to remain registered as full-time students throughout the program until completion of the CDP.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the MEng program. Up to 1.0 FCE of the required master's courses normally are taken during Year 4 and count towards the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the bachelor's program and complete the bachelor's program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students typically begin the master's program in the summer immediately following completion of Year 4 of the bachelor's program.

Registration Path to Completion

Year	Session	BSc*	MEng**
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4 ¹	Fall	Full-time	
	Winter	Full-time	
	Summer ²		Full-time

Combined Degree Programs

Year 5	Fall		Full-time
	Winter		Full-time
	Summer		

* BSc (Environmental Science)

** MEng (Civil Engineering)

¹ BSc requirements (including two FASE undergraduate half courses (TBD) and up to 1.0 FCE of MEng requirements)

² MEng remaining requirements (studies may commence in Summer between Years 4 and 5)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Civil Engineering, Master of Engineering

Environmental Physics Program

University of Toronto Scarborough

Web: www.utsc.utoronto.ca/~registrar/calendars/calendar/Environmental_Science.html

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: www.civil.engineering.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Health Administration, Master of Health Science / Master of Nursing

Admissions have been suspended for this combined degree program.

Overview

The **Combined Degree Program (CDP) in Health Administration, Master of Health Science / Master of Nursing** provides students who have a strong interest in both health administration and nursing with an opportunity to engage in an integrated program leading to the concurrent receipt of the MHS and MN degrees.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Health Administration, MHS

Nursing, MN

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the admission requirements. Applicants gain independent admission to the Institute of Health Policy, Management and Evaluation (IHPME) 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 IHPME and complete a total of 6.0 FCEs: 5.0 FCEs in MHS in Health Administration courses plus 1.0 FCE in electives that can be taken from IHPME or Nursing.
- **Year 3:** 1.5 FCE taken in IHPME.

Time Limit

The time limit for the CDP is the sum of the time limit of each graduate program taken separately.

Contact

Health Administration, Master of Health Science / Master of Nursing

Master of Health Science in Health Administration Program

Institute of Health Policy, Management and Evaluation

Web: <http://ihpme.utoronto.ca/academics/pp/mhsc/>

Email: ihpme@utoronto.ca

Master of Nursing Program

Graduate Department of Nursing Science

Web: <http://bloomberg.nursing.utoronto.ca/academic/programs/master>

Email: inquiry.nursing@utoronto.ca

Combined Degree Programs

Health Administration, Master of Health Science / Master of Social Work

Overview

The **Combined Degree Program (CDP) in Health Administration, Master of Health Science / Master of Social Work** allows individuals to integrate their commitment to serving vulnerable individuals and populations with the knowledge and skills needed to lead in today's challenging health and social services environment.

An integrated and comprehensive program of study, this CDP will engage those with a strong interest in both social work and health/social sciences management.

With the focus on community health care, there is a greater need for linkages between health and social services. The Interdisciplinary Program of Social Work and Health Administration is a program of study for students who wish to move into administrative leadership in social work and health organizations.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Health Administration, MHSc

Social Work, MSW

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the admission requirements.
- Applicants gain independent admission to the Institute 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 of Social Work degree.

Time Limit

The time limit for the CDP is the sum of the time limit of each graduate program taken separately.

Contact

Health Administration, Master of Health Science / Master of Social Work

CDP websites:

<http://ihpme.utoronto.ca/academics/pp/mhsc-msw/>

<http://socialwork.utoronto.ca/programs/msw-programs/msw-combined-programs/>

Master of Health Science in Health Administration Program

Institute of Health Policy, Management and Evaluation

Email: ihpme@utoronto.ca

Master of Social Work Program

Factor-Inwentash Faculty of Social Work

Email: admissions.fsw@utoronto.ca

Interactive Digital Media (Specialist), Honours Bachelor of Arts / Master of Information

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Specialist in Interactive Digital Media / Master of Information** allows students to complete both degrees in 5.5 years rather than the 6 years it would take to acquire them independently.

Applicants must select one of the following concentrations when they apply to the MI program:

- Critical Information Policy Studies;
- Culture and Technology;
- Information Systems and Design;
- Knowledge Management and Information Management;
- Knowledge Media Design.

Undergraduate students apply to the MI program in Year 3.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Interactive Digital Media, Honours BA
Information, MI

Minimum Admission Requirements

- Applicants must apply to and be accepted by one of the BA programs at UTM and the MI program in the Faculty of Information. Applicants must satisfy the admission requirements of each program. Undergraduate students apply to the master's program in Year 3.
- Students must be enrolled full-time in the BA program and be in good standing in the BA program with a cumulative grade point average (CGPA) of no less than 3.7 In Year 2 to be admissible; students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Qualified students in Year 3 of the BA program may apply to the MI program; those accepted will receive a conditional offer to commence the MI program when the BA program requirements have been completed.
- Admission into the MI program will have three conditions: students must (1) maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the BA, (2) complete BA requirements, and (3) demonstrate BA degree conferral.

Program Requirements

- Students in the combined program must meet the full academic program requirements of the BA program and the MI program.
- Throughout the BA program, students must be registered full-time, enrolling in 5.0 FCEs each year.
- Students who receive conditional offers of admission to the MI program during Year 3 of the BA program and complete the BA program requirements in Year 4 will commence the MI during Year 5 of the combined program.
- In Year 4, students must take:
 - INF 1005H and INF 1006H (0.25 FCE each) from the MI program; these courses will count as electives in the BA program
 - courses from one of the following five MI concentrations (1.5 FCEs); these courses will count towards the breadth requirement for the BA:
 - Critical Information Policy Studies: INF 1001H; INF 2181H; INF 2198H
 - Culture and Technology: INF 1501H; INF 1502H; INF 1240H
 - Information Systems and Design: INF 1340H; INF 1341H; INF 2040H
 - Knowledge Management and Information Management: INF 1003H; INF 1230H; INF 1341H
 - Knowledge Media Design: KMD 1001H; KMD 1002H; KMD 2001H
- In Years 5 and 6, students will complete an additional 6.0 FCEs from the concentration selected in the MI program. Consult the course list in the Information calendar entry.

Combined Degree Programs

Registration Path to Completion

Year	Session	BA	MI
Year 1	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 2	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 3	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 4	Fall	Full-time	
	Winter	Full-time	
	Summer		
Year 5	Fall		Full-time
	Winter		Full-time
	Summer		
Year 6	Fall		Full-time
	Winter		
	Summer		

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

UTM, Honours Bachelor of Arts, Specialist in Interactive Digital Media / Master of Information

Interactive Digital Media Program

Institute of Communication, Culture, Information and Technology

Web: www.utm.utoronto.ca/iccit/programs/programs-offered/interactive-digital-media-idm

Email: iccit.utm@utoronto.ca

Master of Information Program

Faculty of Information

Web: www.ischool.utoronto.ca/mi

Email: inquire@ischool.utoronto.ca

Law, Juris Doctor / Criminology, Master of Arts

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Criminology, Master of Arts** is designed for students who wish to pursue this interdisciplinary approach to the study of criminal justice and social regulation.

The program permits the completion of both degrees in three years rather than the four years it would take to acquire them independently. In the first year of the program, students complete all first-year courses at the Faculty of Law. In the two combined upper years, students fulfil the compulsory requirements of the upper years of the JD and the course requirements for the Criminology program.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Criminology, MA

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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 CDP 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, a perspectives course, and an ICT course;
 - take 3.0 full-course equivalents (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 Faculty of Law credits completed each year will be adjusted accordingly, with the only requirement being that 45 are completed over the two years.
 - Students must submit their programs for approval by the combined program administrator in each unit.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Criminology, Master of Arts

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-criminology

<http://criminology.utoronto.ca/programs/graduate/collaborative-programs/>

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Arts in Criminology Program

Centre for Criminology and Sociolegal Studies

Email: crim.grad@utoronto.ca

Combined Degree Programs

Law, Juris Doctor / Economics, Master of Arts

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Economics, Master of Arts** is designed for students who intend to pursue careers in areas that require some sophistication in economics, such as competition policy, commercial contracting, mergers and acquisitions, business organization, tax policy, environmental law, and international trade regulation.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Economics, MA

Minimum Admission Requirements

- Applicants must apply to both the JD and MA regular-stream program as specified in the admission requirements.
- The program allows a student to complete both the JD and the eight-month MA program in three years of academic study rather than the four years required to receive the degrees separately. (Note that this program cannot be combined with any of the collaborative programs.) Applicants must apply to each program separately but indicate on their applications that they wish to be considered for the CDP. They will be considered for the CDP after they have secured independent admission to both the JD and MA programs. They will be registered in the Faculty of Law for all three years of the program and also in the Department of Economics for the last two years.

Program Requirements

- Students complete all first-year courses of the JD program at the Faculty of Law.
- 45 law credits in law to satisfy the requirements.
- Six half courses in economics including the core courses micro (ECO 2060H), macro (ECO 2061H), and econometrics (ECO 2408H).
- Successful completion of ECO 1010H *Mathematics and Statistics for MA Regular Stream Students*.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Economics, Master of Arts

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-economics

www.economics.utoronto.ca/index.php/index/graduate/jdma

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Arts in Economics Program

Department of Economics

Email: www.economics.utoronto.ca/index.php/index/index/contact

Law, Juris Doctor / Economics, Doctor of Philosophy

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Economics, Doctor of Philosophy** allows a student to complete all the requirements for the Juris Doctor and all the requirements for the PhD (except a dissertation) in four years, rather than the five years it would take to reach this stage if the programs were taken separately. In Year 5 and Year 6, a dissertation will be completed.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Economics, PhD

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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 CDP.

Program Requirements

- **Year 1:** students are admitted to the Faculty of Law and complete first-year law courses. Students 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.
- **Years 5 and 6:** students complete a dissertation. It is expected, but not required, that a student's dissertation committee will include a member of the Faculty of Law.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Economics, Doctor of Philosophy

Juris Doctor Program

Faculty of Law

Web: www.law.utoronto.ca

Email: law.admissions@utoronto.ca

Doctor of Philosophy in Economics Program

Department of Economics

Web: www.economics.utoronto.ca/index.php/index/graduate/jdphd

Email: www.economics.utoronto.ca/index.php/index/index/contact

Combined Degree Programs

Law, Juris Doctor / English, Master of Arts

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / English, Master of Arts** is designed for students interested in studying the intersections of law and literature. The CDP 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 CDP. 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 program in English must be completed by coursework, not by thesis.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

English, MA

Minimum Admission Requirements

- Students are considered for the CDP 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 FCE from a set of designated Law and Literature program courses.
- Complete 44 credits at the Faculty of Law, including Law and Literature or 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / English, Master of Arts

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-english

www.english.utoronto.ca/grad/programs/jdma.htm

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Arts Program

Department of English

Email: deptofenglish.graduate@utoronto.ca

Law, Juris Doctor / European and Russian Affairs, Master of Arts

Overview

Legal issues are at the forefront of the changes currently transforming Russia and Eastern Europe. The **Combined Degree Program (CDP) in Law, Juris Doctor / European and Russian Affairs, Master of Arts** enables students interested in these issues to combine their law degree with intensive study of this region.

The program permits the completion of both degrees in four years rather than the five years it would take to acquire them independently. In Year 1 of the program, students complete all Year 1 courses at the Faculty of Law. In the three combined upper years, students fulfil the compulsory requirements of the upper years of the JD program and the course requirements for the CDP.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

European and Russian Affairs, MA

Minimum Admission Requirements

- Applicants must separately apply to and be accepted by both the JD program and the MA (European and Russian Affairs) programs. They must satisfy the normal admission requirements for each program.
- Applicants who have completed a year in the European and Russian Affairs master's program or the first year of the JD can apply for admission to the CDP.

Program Requirements

- **Year 1:** Students are admitted to the Faculty of Law and receive deferred admission to the MA program in European and Russian Affairs. 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 and Russian Affairs.
- 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / European and Russian Affairs, Master of Arts

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-russian-and-east-european-studies

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Arts in European and Russian Affairs Program

Centre for European, Russian, and Eurasian Studies

Email: ceres.admin@utoronto.ca

Combined Degree Programs

Law, Juris Doctor / Master of Business Administration

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Management, Master of Business Administration** 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.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Management, MBA

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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.
- Applicants must obtain satisfactory scores on the Law School Admission Test (LSAT). The Graduate Management Admission Test (GMAT) or the Graduate Record Examination (GRE; General Test) are recommended but not required. Test results are valid for five years.
- Students who are in the first year of either the JD or Full-Time program may apply for admission to the CDP by meeting the normal application and admission requirements for the other Faculty.

Program Requirements

- Within this four-year CDP, students must:
 - register and complete the first year of the JD program to continue in the CDP;
 - complete the MBA 1000-level core courses with at least a B+ to be eligible to continue in the CDP;
 - 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 an ICT course).
- At the completion of the four-year CDP, 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Master of Business Administration Program

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmba-program

www.rotman.utoronto.ca/Degrees/MastersPrograms/JointDegrees/JDMBA.aspx

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Business Administration Program

Rotman School of Management

Email: sheldon.dookeran@rotman.utoronto.ca

Law, Juris Doctor / Master of Global Affairs

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Master of Global Affairs** is designed for students interested in studying the intersections of law and global affairs. It permits the completion of both degrees in four years rather than the five years it would take to acquire them independently. Students admitted to the CDP follow the academic path to completion outlined below.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Global Affairs, MGA

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the admission requirements.
- 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, all students will register in the Munk 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 Munk School of Global Affairs

Summer between Years 2 and 3: full-time in Munk School of Global Affairs

Year 3: full-time in Faculty of Law and part-time in Munk School of Global Affairs

Year 4: full-time in Faculty of Law and part-time in Munk School of Global Affairs

Within this four-year CDP, students must meet all the respective degree requirements of both the MGA and the JD program at the Faculty of Law, including:

- In Year 1, successfully complete all Year 1 courses of the JD program at the Faculty of Law.
- In Year 2, successfully complete all the Year 1 requirements of the MGA with at least a B+ standing, with the exception of *Public International Law* (GLA 1006H). JD/MGA students must successfully complete *Public International Law* (LAW 252H, worth 4 law credits (0.5 full-course equivalent [FCE]) during Year 2. *Public International Law* will be counted towards the fulfilment of a student's MGA degree requirements, rather than the fulfilment of the JD requirements. Students enrol in LAW 252H through the MGA program and will be graded on the graduate scale.
- In the summer between Years 2 and 3, complete a summer global internship (GLA 1007H) with MGA worth 0.5 FCE.
- In Years 3 and 4, successfully complete:
 - a further 3.5 FCEs at the 2000 level from the Munk School of Global Affairs (including GLA 2000H *Capstone Seminar*, GLA 1009H *Financial Management for Global Organizations*, and graduate-level courses approved by the Director of the MGA);
 - 41 to 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 6 of the 41 to 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 243H)
 - *International Trade Regulation* (LAW 285H)
 - *International Human Rights Law* (LAW 294H)

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Combined Degree Programs

Contact

Law, Juris Doctor / Master of Global Affairs

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmga-master-global-affairs

<http://munkschool.utoronto.ca/mga/joint-degrees/juris-doctor-master-of-global-affairs>

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Global Affairs Program

Munk School of Global Affairs

Email: mga@utoronto.ca

Law, Juris Doctor / Master of Information

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Master of Information** is offered jointly by the Faculty of Law and the Faculty of Information. Students receive two degrees: Juris Doctor and Master of Information. The program is designed for students who wish to combine graduate training in information studies with a degree in law. It allows students to complete two degree programs within a reduced timeframe of four years, which, if taken separately, would require five years of study.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Master of Information, MI

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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 Admissions Test (LSAT) and all admission requirements of the Faculty of Information. 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 CDP 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Master of Information

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmi-information

Juris Doctor Program

Faculty of Law

Web: www.law.utoronto.ca

Email: law.admissions@utoronto.ca

Master of Information Program

Faculty of Information

Web: www.ischool.utoronto.ca

Email: inquire@ischool.utoronto.ca

Combined Degree Programs

Law, Juris Doctor / Master of Public Policy

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Master of Public Policy** program is designed for students interested in studying the intersections of law and public policy.

The CDP 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 CDP. Students are registered in the Faculty of Law in Year 1 of the program, the School of Public Policy and Governance for Year 2 of the program, and in both the Faculty of Law and the School of Public Policy and Governance for Years 3 and 4.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Master of Public Policy, MPP

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the admission requirements.
- Each student in the CDP 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, all students will register in the School of Public Policy and Governance only after their first year in the JD program.

Program Requirements

Within this four-year CDP, students must meet all the respective degree requirements of the MPP and the JD programs, including:

- In **Year 1**, successfully complete all first-year courses of the JD program at the Faculty of Law.
- In **Year 2**, successfully complete all first-year requirements of the MPP (with the exception of MPP 2001H, but including the equivalent of 0.5 full-course equivalent (FCE) credits in the Faculty of Law), with at least a B+ standing.
- In the **summer between Years 2 and 3**, 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 3 and 4**, successfully complete:
 - 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 2022H, PPG 2003H), with a minimum of 1.0 MPP FCE in Year 3; and
 - 41 to 45 credits at the Faculty of Law, including a perspectives course, a moot (compulsory or competitive), and a Supervised Upper-Year Research Paper (SUYP), with a minimum of 18 JD credits in Year 3.
- Students enrolled in CDPs 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 CDP, 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Master of Public Policy

www.law.utoronto.ca/academic-programs/jd/combined-programs/jdmpp-public-policy

Juris Doctor Program

Combined Degree Programs

Faculty of Law
Web: www.law.utoronto.ca
Email: law.admissions@utoronto.ca

Master of Public Policy Program
School of Public Policy and Governance
Web: www.publicpolicy.utoronto.ca
Email: public.policy@utoronto.ca

Combined Degree Programs

Law, Juris Doctor / Master of Social Work

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Master of Social Work** combines the law school's interdisciplinary teaching environment with its commitment to public interest law. Offered by the Faculty of Law and the Factor-Inwentash Faculty of Social Work, the program gives students who wish to practise in the areas in which law and social work interact (for example, child welfare, mental health, social policy, human rights) an opportunity to participate in a coherent program leading to both the JD and MSW degrees.

This CDP allows students to complete the two degrees in four years, rather than the five it would take to pursue them independently. Students who enter with a Bachelor of Social Work (BSW) will be given advanced standing and are exempted from completing the first year of the master's program (MSW) in social work and, therefore, complete Years 1, 3, and 4 of the CDP only, completing the CDP in three years.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Master of Social Work, MSW

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Master of Social Work

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmsw-social-work

Juris Doctor Program

Faculty of Law

Web: www.law.utoronto.ca

Email: law.admissions@utoronto.ca

Master of Social Work Program

Factor-Inwentash Faculty of Social Work

Web: www.socialwork.utoronto.ca

Email: admissions.fsw@utoronto.ca

Law, Juris Doctor / Philosophy, Doctor of Philosophy

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Philosophy, Doctor of Philosophy** enables students to pursue a profound investigation of the complex issues that lie at the intersection between law and philosophy. The program allows students to complete the two degrees one year faster than if they were pursued separately. At the end of that period, the student will have completed the JD degree and reached the dissertation stage of the PhD in Philosophy.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Philosophy, PhD

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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 website.
- **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 part-time. Note that some of the courses completed in fulfilment of PhD requirements will be counted for credit towards the JD and vice versa.
- During **Years 1 and 2**, students are registered as full-time law students; subsequently, they are registered as full-time doctoral students and are eligible for graduate funding.
- By the **end of Year 4**, in the case of someone admitted on the basis of a master's degree, otherwise by the end of Year 5, 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.
- **Years 5 and 6:** students complete the dissertation.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Philosophy, Doctor of Philosophy

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdphd-philosophy

Juris Doctor Program

Faculty of Law

Web: www.law.utoronto.ca

Email: law.admissions@utoronto.ca

Doctor of Philosophy in Philosophy

Department of Philosophy

Web: www.philosophy.utoronto.ca

Email: phildept.@chass.utoronto.ca

Combined Degree Programs

Law, Juris Doctor / Political Science, Doctor of Philosophy

Overview

The **Combined Degree Program (CDP) in Law, Juris Doctor / Political Science, Doctor of Philosophy** allows students to complete both degrees at least one year sooner than it would take to complete the degrees separately.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Law, JD

Political Science, PhD

Minimum Admission Requirements

- Applicants must apply to both degree programs as specified in the 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 CDP.
- **Year 2:** complete a year in political science.
- **Years 3 and 4:** two years in law.
- **Years 5 and 6:** complete the requirements of the PhD program, including a thesis.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Law, Juris Doctor / Political Science, Doctor of Philosophy

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdphd-political-science

Juris Doctor Program

Faculty of Law

Web: www.law.utoronto.ca

Email: law.admissions@utoronto.ca

Doctor of Philosophy in Political Science

Department of Political Science

Web: <http://politics.utoronto.ca/graduate/>

Email: poligrad@utoronto.ca

Management, Master of Business Administration / Master of Global Affairs

Overview

The **Combined Degree Program (CDP) in Management, Master of Business Administration / Master of Global Affairs** is designed for students interested in studying the intersections of business and global affairs. The CDP 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 CDP. Students are registered in the Munk School of Global Affairs in Year 1 of the program, the Rotman School of Management for Year 2 of the program, and in both for Year 3 of the program.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Management, MBA

Global Affairs, MGA

Application Process

- Applicants must apply to the MBA program, the MGA program, and the CDP.
- Applicants must apply to both the MBA and MGA programs and meet the admission requirements for both graduate programs.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the School of Graduate Studies, the MBA program, and the MGA program.
- Applicants may be admitted to the CDP either at the time of their first application or during Year 1 of the MGA program. Whether admitted at the outset or after Year 1 of the MGA program, all students will register in the MBA program after Year 1 of the MGA program.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Year	Curricular Path	Specific Requirements	Progression
1	<ul style="list-style-type: none"> • 4.5 full-course equivalents (FCEs) in global affairs with a minimum B+ standing. 	<ul style="list-style-type: none"> • 4.0 FCEs in global affairs: GLA 1001H, GLA 1002H, GLA 1003H, GLA 1004H, GLA 1005H, GLA 1006H, GLA 1011H, GLA 1012H. • 0.5 FCE (GLA 1007H) to be taken in the Summer session. • Students without a sufficient background in microeconomics are required to take GLA 1010H in the first session of Year 1. 	<ul style="list-style-type: none"> • Students register full-time in the MGA program.
2	<ul style="list-style-type: none"> • 6.13 FCEs in management with a minimum B+ standing. 	<ul style="list-style-type: none"> • 3.0 FCEs in management: RSM 1151H, RSM 1152H, RSM 1160H, RSM 1210H, RSM 1211H, RSM 1212H, RSM 1222H, RSM 1231H, RSM 1232H, RSM 1241H, RSM 1261H, RSM 1262H, RSM 1291H, RSM 1292H, RSM 1320H, RSM 1350H, RSM 1382H. 	<ul style="list-style-type: none"> • Students are registered full-time in the MBA program.
3	<ul style="list-style-type: none"> • 2.5 FCEs in management. • 2.5 FCEs in global affairs. 	<ul style="list-style-type: none"> • 2.5 FCEs in management electives from the 2000-level MBA course list. • 2.0 FCEs in global affairs electives. • 0.5 FCE: GLA 2000H <i>Capstone Seminar</i> (required course). 	<ul style="list-style-type: none"> • Students are registered full-time in the MBA and part-time

Combined Degree Programs

			in the MGA programs.
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To participate in the Rotman Student Exchange Program, students must get permission from both programs. Students in the CDP 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.

Time Limit

The time limit for the CDP is the sum of the time limit of each graduate program taken separately.

Contact

Management, Master of Business Administration / Master of Global Affairs Program

Web: <http://munkschool.utoronto.ca/mga/joint-degrees/master-of-global-affairs-mba>

Master of Business Administration Program

Rotman School of Management

Email: dimitra.tsalpouris@rotman.utoronto.ca

Master of Global Affairs Program

Munk School of Global Affairs

Email: mga@utoronto.ca

Medicine, Doctor of / Doctor of Philosophy

Overview

The **Combined Degree Program (CDP) in Medicine, Doctor of / Doctor of Philosophy** 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.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Students may combine the MD program with one of the following PhD programs:

Biochemistry
Immunology
Laboratory Medicine and Pathobiology
Medical Biophysics
Medical Science
Molecular Genetics
Nutritional Sciences
Pharmacology
Physiology

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 requirements, students return full-time to the medical program.
- **Sequential:** Students with a master's or bachelor's degree enter the medical program on a full-time basis. After 12 to 18 months of medical school, they proceed to full-time graduate work until the PhD requirements are completed. Students then return to medical school to complete the last 2 to 3 years.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Doctor of Medicine / Doctor of Philosophy Program
Faculty of Medicine
Web: <http://mdphd.utoronto.ca/>
Email: mdphd.program@utoronto.ca

Mental Health Studies (Specialist), Honours Bachelor of Science / Master of Social Work

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Mental Health Studies / Master of Social Work** provides a rich intellectual pathway for exceptional undergraduate students pursuing a career in social work, giving them access to social work research before the completion of the undergraduate degree.

Students have an opportunity to become equipped for evidence-informed social work practice, through a research course in Year 4, with a Factor-Inwentash Faculty of Social Work co-supervisor.

The CDP allows well-qualified students in this specialist undergraduate program to apply during Year 3 and be considered for admission into the MSW two-year full-time program.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Mental Health Studies, Honours BSc
Social Work, MSW

Application Process

- Applicants apply to the HBSc program, the MSW program, and the CDP.
- Qualified students in Year 3 of their HBSc program apply to the MSW program; those accepted will receive a conditional offer to start the MSW program when their chosen HBSc program requirements have been completed.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MSW program.
- The specialist option in the Mental Health Studies program has enrolment limits:
 - Students may apply to the program after completing a minimum of 4.0 full-course equivalents (FCEs) including 1.0 FCE in psychology.
 - Admission will be based on an average of 70% or higher in each of PSYA01H3 and PSYA02H3.
- In order to apply to the CDP, applicants in the HBSc program must:
 - be enrolled full-time and in good standing;
 - have a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in Year 2;
 - carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Applicants to the MSW program must:
 - maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program;
 - complete the requirements of their HBSc program;
 - be conferred with the HBSc degree.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1 to 4	<ul style="list-style-type: none">• HBSc program requirements.	<ul style="list-style-type: none">• Students must enrol in 5.0 full-course equivalents (FCEs) in Years 1, 2, 3, and 4, and complete a total of 20.0 FCEs to meet the HBSc degree requirements.• The program requires completion of 12.5 FCEs as follows, including at least 4.0 FCEs at the C- or D-level, of which at least 1.0 must be at the D-level:<ol style="list-style-type: none">1. 1.0 FCE as follows:	<ul style="list-style-type: none">• Students are registered full-time in the HBSc program.• The specialist

Combined Degree Programs

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| <p>PSYA01H3 <i>Introductory Psychology: Part I</i>
 PSYA02H3 <i>Introductory Psychology: Part II</i></p> <p>2. Statistical Methods (1.0 FCE)
 PSYB07H3 <i>Data Analysis in Psychology</i>
 PSYC08H3 <i>Advanced Data Analysis in Psychology</i></p> <p>3. Laboratory Methods (1.0 FCE)
 PSYB01H3 <i>Psychological Research Laboratory</i>
 PSYC37H3 <i>Psychological Assessment</i></p> <p>4. 0.5 FCE as follows:
 PSYC02H3 <i>Scientific Communication in Psychology</i></p> <p>5. <i>History and Approaches</i> (0.5 FCE)
 PSYC84H3 <i>Psychology and the Scientific Mind</i> or
 PSYC85H3 <i>History of Psychology</i></p> <p>6. 1.0 FCE as follows:
 PSYB30H3 <i>Personality</i>
 PSYB32H3 <i>Abnormal Psychology</i></p> <p>7. Students are required to take 2.0 FCEs from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 FCE from the other grouping (3.0 FCEs):</p> <ul style="list-style-type: none"> ◦ Psycho-Social Grouping
 PSYB45H3 <i>Behaviour Modification: Origins and Applications</i>
 PSYC18H3 <i>The Psychology of Emotion</i>
 PSYC35H3 <i>Advanced Personality Psychology</i>
 PSYC36H3 <i>Psychotherapy</i>
 PSYC39H3 <i>Psychology and the Law</i> ◦ Psycho-Biological Grouping
 PSYB64H3 <i>Physiological Psychology</i>
 PSYB65H3 <i>Human Brain and Behaviour</i>
 PSYC31H3 <i>Clinical Neuropsychology</i>
 PSYC33H3 <i>Neuropsychological Rehabilitation</i>
 PSYC62H3 <i>Drugs and the Brain</i> <p>8. Students are required to take 1.0 D-level FCE, with at least 0.5 from the following list (1.0 FCE)
 PSYD30H3 <i>Current Topics in Personality Psychology</i>
 PSYD32H3 <i>Personality Disorders</i>
 PSYD33H3 <i>Current Topics in Abnormal Psychology</i>
 PSYD35H3 <i>Clinical Psychopharmacology</i></p> <p>9. Additional FCEs in Psychology (1.5 FCEs).</p> <p>10. Students must select 2.0 FCEs from the following courses:
 HLTB17H3 <i>Conceptual Models of Health</i>
 HLTB40H3 <i>Health Policy and Health Systems</i>
 HLTC22H3 <i>Health, Aging, and the Life Cycle</i>
 HLTC23H3 <i>Issues in Child Health and Development</i>
 LINB20H3 <i>Sociolinguistics</i>
 MGTA06H3 <i>Introduction to Health Management</i>
 PHLA11H3 <i>Introduction to Ethics</i>
 PHLB07H3 <i>Ethics</i>
 PHLB09H3 <i>Biomedical Ethics</i>
 SOCB48H3 <i>Family and Society</i>
 SOCB50H3 <i>Deviance and Normality I</i>
 SOCB51H3 <i>Deviance and Normality II</i>
 SOCC30H3 <i>Criminal Behaviour</i></p> <ul style="list-style-type: none"> ◦ In Year 4, 1.5 FCEs of the required 5.0 FCEs must include: <ul style="list-style-type: none"> ▪ completion of a UTSC D-level research course PSYD98Y3 <i>Thesis in Psychology</i> under the supervision of a UTSC Psychology faculty member in consultation with a Social Work faculty member (1.0 FCE). | <p>option in the Mental Health Studies program has enrolment limits as described in the admission requirements.</p> <ul style="list-style-type: none"> • Qualified students may apply to the CDP and MSW program in Year 3, and may be offered a conditional admission. |
|--|--|

Combined Degree Programs

		<ul style="list-style-type: none"> completion of a UTSC D-level course PSYD37H3 <i>Social Context of Mental Health and Illness</i> (0.5 FCE). 	
5	<ul style="list-style-type: none"> MSW Year 1 program requirements. Students must select a specialization by the end of Year 1 of the MSW program. 	<ul style="list-style-type: none"> Students must complete 4.0 FCEs as follows: SWK 4102H, SWK 4103H, SWK 4105H, SWK 4107H, SWK 4510H, SWK 4602H, SWK 4603H, SWK 4654H. Student must complete the Year 1 practicum (SWK 4701H⁺). By the end of Year 1 of the MSW program, students must select one of the following fields of specializations: Children and Their Families; Gerontology; Health and Mental Health; Social Justice and Diversity; Social Service Administration. 	<ul style="list-style-type: none"> Students are registered full-time in the MSW program.
6	<ul style="list-style-type: none"> MSW Year 2 program requirements. 	<ul style="list-style-type: none"> In Year 2 of the MSW program, all students complete 1.0 FCE in electives, the Year 2 practicum (SWK 4702Y), and additional courses in their chosen field of specialization: <ul style="list-style-type: none"> Children and Their Families: SWK 4514H, SWK 4608H, SWK 4620H, SWK 4625H. Gerontology: AGE 2000H, SWK 4513H, SWK 4612Y, SWK 4618H. Health and Mental Health: SWK 4412H, SWK 4511H, and <i>either</i>: SWK 4622H and SWK 4604H, <i>or</i> SWK 4622H and SWK 4632H, <i>or</i> SWK 4604H and SWK 4631H. Social Justice and Diversity: SWK 4304H, SWK 4306H, SWK 4512H, SWK 4606H. Social Service Administration: SWK 4425H, SWK 4426H, SWK 4427H, SWK 4515H. 	<ul style="list-style-type: none"> Students are registered full-time in the MSW program.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Honours Bachelor of Science Program
 Department of Psychology, University of Toronto Scarborough
 Web: www.utsc.utoronto.ca/psych/
 Email: psychology-undergraduate@utsc.utoronto.ca

Master of Social Work Program
 Factor-Inwentash Faculty of Social Work
 Web: <http://socialwork.utoronto.ca/programs/msw-programs/>
 Email: admissions.fsw@utoronto.ca

Mental Health Studies (Specialist Co-op), Honours Bachelor of Science / Master of Social Work

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Mental Health Studies / Master of Social Work** provides a rich intellectual pathway for exceptional undergraduate students pursuing a career in social work, giving them access to social work research before the completion of the undergraduate degree.

Students have an opportunity to become equipped for evidence-informed social work practice, through a research course in Year 4, with a Factor-Inwentash Faculty of Social Work co-supervisor.

The CDP allows well-qualified students in this specialist undergraduate program to apply during Year 3 and be considered for admission into the MSW two-year full-time program.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Mental Health Studies, Honours BSc
Social Work, MSW

Application Process

- Applicants apply to the HBSc program, the MSW program, and the CDP.
- Qualified students in Year 3 of the HBSc program apply to the MSW program; those accepted will receive a conditional offer to start the MSW program when their chosen HBSc program requirements have been completed.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MSW program.
- Current UTSC students: Application procedures can be found at the Registrar's Office website. The minimum qualifications for entry are 4.0 full-course equivalents (FCEs) including PSYA01H3 and PSYA02H3 plus a cumulative grade point average (CGPA) of at least 2.75.
- All other applicants: See the Co-operative Programs section of the UTSC Calendar.
- In order to apply to the CDP, applicants in the HBSc program must:
 - be enrolled full-time and in good standing;
 - have a B+ average (CGPA of 3.3) or higher in Year 2;
 - carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Applicants to the MSW program must:
 - maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program;
 - complete the requirements of their HBSc program;
 - be conferred with the HBSc degree.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1 to 4	<ul style="list-style-type: none"> • HBSc program requirements. • Two four-month work terms to fulfil 	<ul style="list-style-type: none"> • Students must enrol in 5.0 full-course equivalents (FCEs) in Years 1, 2, 3, and 4, and complete a total of 20.0 FCEs to meet the HBSc degree requirements. • Work Terms The program requires eight four-month terms of study and two four-month work terms over a four-year period. To be eligible for 	<ul style="list-style-type: none"> • Students are registered full-time in the HBSc program.

Combined Degree Programs

	<p>the co-op requirement.</p>	<p>the first work term, students must have completed at least 10.0 FCEs, including PSYB01H3, PSYB07H3, PSYB32H3, PSYB65H3, PSYC02H3, PSYC08H3, and PSYC32H3.</p> <p>Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels, and industry tours along with seminars covering resumés, cover letters, job interviews, and work term expectations, prior to the first work term. Certain other courses, specified below, must be taken before the first work term.</p> <p>To be eligible for the second work term, students must have completed at least 12.5 FCEs, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.</p> <ul style="list-style-type: none"> The program requires completion of 12.5 FCEs as follows, including at least 4.0 FCEs at the C- or D-level, of which at least 1.0 must be at the D-level: <ol style="list-style-type: none"> 1.0 FCE as follows: PSYA01H3 <i>Introductory Psychology: Part I</i> PSYA02H3 <i>Introductory Psychology: Part II</i> Statistical Methods (1.0 FCE) PSYB07H3 <i>Data Analysis in Psychology*</i> PSYC08H3 <i>Advanced Data Analysis in Psychology*</i> Laboratory Methods (1.5 FCE) PSYB01H3 <i>Psychological Research Laboratory*</i> PSYC32H3 <i>Clinical Neuropsychology Laboratory*</i> PSYC37H3 <i>Psychological Assessment**</i> 0.5 FCE as follows: PSYC02H3 <i>Scientific Communication in Psychology*</i> History and Approaches (0.5 FCE) PSYC84H3 <i>Psychology and the Scientific Mind</i> or PSYC85H3 <i>History of Psychology</i> 1.0 FCE as follows: PSYB30H3 <i>Personality</i> PSYB32H3 <i>Abnormal Psychology*</i> Students are required to take 2.0 FCEs from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 FCE from the other grouping (3.0 FCEs): <ul style="list-style-type: none"> Psycho-Social Grouping PSYB45H3 <i>Behaviour Modification: Origins and Applications</i> PSYC18H3 <i>The Psychology of Emotion</i> PSYC35H3 <i>Advanced Personality Psychology</i> PSYC36H3 <i>Psychotherapy</i> PSYC39H3 <i>Psychology and the Law</i> Psycho-Biological Grouping PSYB64H3 <i>Physiological Psychology</i> PSYB65H3 <i>Human Brain and Behaviour*</i> PSYC33H3 <i>Neuropsychological Rehabilitation**</i> PSYC62H3 <i>Drugs and the Brain</i> Students are required to take 1.0 D-level FCE, with at least 0.5 from the following list (1.0 FCE). PSYD30H3 <i>Current Topics in Personality Psychology</i> PSYD33H3 <i>Current Topics in Abnormal Psychology</i> PSYD35H3 <i>Clinical Psychopharmacology</i> Additional FCEs in psychology (1.0 FCE). Students must select 2.0 FCEs from the following courses: HLTB17H3 <i>Conceptual Models of Health</i> HLTB40H3 <i>Health Policy and Health Systems</i> HLTC22H3 <i>Health, Aging, and the Life Cycle</i> 	<ul style="list-style-type: none"> Qualified students may apply to the CDP and MSW program in Year 3, and may be offered a conditional admission.
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Combined Degree Programs

		<p>HLTC23H3 <i>Issues in Child Health and Development</i> LINB20H3 <i>Sociolinguistics</i> MGTA06H3 <i>Introduction to Health Management</i> PHLA11H3 <i>Introduction to Ethics</i> PHLB07H3 <i>Ethics</i> PHLB09H3 <i>Biomedical Ethics</i> SOCB48H3 <i>Family and Society</i> SOCB50H3 <i>Deviance and Normality I</i> SOCB51H3 <i>Deviance and Normality II</i> SOCC30H3 <i>Criminal Behaviour</i></p> <p>*These FCEs must be successfully completed before the first work term. **These FCEs must be successfully completed before the second work term.</p> <ul style="list-style-type: none"> In Year 4, 1.5 FCEs of the required 5.0 FCEs must include: <ul style="list-style-type: none"> completion of a UTSC D-level research course PSYD98Y3 <i>Thesis in Psychology</i> under the supervision of a UTSC Psychology faculty member in consultation with a Social Work faculty member (1.0 FCE). completion of a UTSC D-level course PSYD37H3 <i>Social Context of Mental Health and Illness</i> (0.5 FCE). 	
5	<ul style="list-style-type: none"> MSW Year 1 program requirements. Students must select a specialization by the end of Year 1 of the MSW program. 	<ul style="list-style-type: none"> Students must complete 4.0 FCEs as follows: SWK 4102H, SWK 4103H, SWK 4105H, SWK 4107H, SWK 4510H, SWK 4602H, SWK 4603H, SWK 4654H. Student must complete the Year 1 practicum (SWK 4701H*). By the end of Year 1 of the MSW program, students must select one of the following fields of specializations: Children and Their Families; Gerontology; Health and Mental Health; Social Justice and Diversity; or Social Service Administration. 	<ul style="list-style-type: none"> Students are registered full-time in the MSW program.
6	<ul style="list-style-type: none"> MSW Year 2 program requirements. 	<ul style="list-style-type: none"> In Year 2 of the MSW program, all students complete 1.0 FCE in electives, the Year 2 practicum (SWK 4702Y), and additional courses in their chosen field of specialization: <ul style="list-style-type: none"> Children and Their Families: SWK 4514H, SWK 4608H, SWK 4620H, SWK 4625H. Gerontology: AGE 2000H, SWK 4513H, SWK 4612Y, SWK 4618H. Health and Mental Health: SWK 4412H, SWK 4511H, and <i>either</i>: SWK 4622H and SWK 4604H*, <i>or</i> SWK 4622H and SWK 4632H, <i>or</i> SWK 4604H* and SWK 4631H. Social Justice and Diversity: SWK 4304H, SWK 4306H, SWK 4512H, SWK 4606H. Social Service Administration: SWK 4425H, SWK 4426H, SWK 4427H, SWK 4515H. <p>*Students who have completed the specialist co-op in Mental Health Studies are exempt from SWK 4604H and must replace this with another SWK elective.</p>	<ul style="list-style-type: none"> Students are registered full-time in the MSW program.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Honours Bachelor of Science Program
Department of Psychology

Combined Degree Programs

Web: www.uts.utoronto.ca/psych/

Email: psychology-undergraduate@uts.utoronto.ca

Master of Social Work Program

Factor-Inwentash Faculty of Social Work

Web: <http://socialwork.utoronto.ca/programs/msw-programs/>

Email: admissions.fsw@utoronto.ca

Music Education (Stream), Bachelor of Music / Master of Teaching

Overview

The **Combined Degree Program (CDP): Bachelor of Music, Music, Stream in Music Education / Master of Teaching** leads to teaching certification in Ontario. Students in the Bachelor of Music program's Music Education stream who are interested in pursuing a teaching career have the opportunity to gain early, conditional admission to the Master of Teaching program.

Students earn a bachelor's degree and an accredited professional Master of Teaching (MT) degree, and will be recommended to the Ontario College of Teachers for an Ontario Teacher's Certificate of Qualifications as elementary or secondary school teachers. Distinct advantages include:

- early application to the MT program (in Year 3) and conditional admission to the MT program;
- eligibility for certification as a teacher in Ontario; and
- eligibility to apply for doctoral study.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Music, MusBac

Teaching, MT

Application Process

- Applicants apply to the MusBac program, the MT program, and the CDP.

Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the MusBac program, the School of Graduate Studies, and the MT program.
- In addition, applicants to the MT program must have an average grade of at least B+.
- Please see the contact information below to find details on each program's admission requirements.

Academic Path to Completion

Every CDP involves a specific combination of approved degree programs. The CDP requirements build on those of the two separate degree programs. Each CDP has a unique pattern of academic activity year by year.

Year	Curricular Path	Specific Requirements	Progression
1 to 4	<ul style="list-style-type: none"> • Students complete the requirements for the MusBac program. 	<ul style="list-style-type: none"> • Year 1 required courses (6.17 full-course equivalents [FCEs]): <ul style="list-style-type: none"> ◦ EMU130Y1, EMU150H1, EMU151H1, EMU152H1; ◦ HMU111H1, HMU126H1; ◦ TMU130H1, TMU131H1, TMU132H1, TMU133H1; ◦ plus TMU105Y1 or TMU107Y1; ◦ PMU184Y1 and major ensemble; ◦ plus electives from Music and the Faculty of Arts & Science. • Year 2 required courses (6.17 FCEs): <ul style="list-style-type: none"> ◦ EMU240H1, EMU245H1; ◦ plus EMU207Y1 or EMU355Y1; ◦ HMU 225H1; ◦ plus HMU240H1 or HMU245H1; ◦ TMU230H1, TMU231H1, TMU232H1; ◦ PMU284Y1 and major ensemble; ◦ plus electives from Music and the Faculty of Arts & Science. 	<ul style="list-style-type: none"> • Students are registered full-time in the MusBac program. • In the Fall session of Year 3, students apply to the CDP and MT program. • 1.0 FCE in graduate courses

Combined Degree Programs

		<ul style="list-style-type: none"> • Year 3 required courses (5.83 FCEs): <ul style="list-style-type: none"> ◦ PMU380Y1; ◦ PMU384Y1 and major ensemble; ◦ plus electives from Music and the Faculty of Arts & Science. • Year 4 required courses (5.67 FCEs): <ul style="list-style-type: none"> ◦ PMU484Y1 and major ensemble; ◦ CTL 7001H, CTL 7009H; ◦ plus electives from Music and the Faculty of Arts & Science. 	taken in Year 4 are counted towards the MT program requirements.
5	<ul style="list-style-type: none"> • 4.5 FCEs from the MT program. 	<ul style="list-style-type: none"> • Year 1 core MT courses in the Primary/Junior Concentration or Junior/Intermediate Concentration: CTL 7000H, CTL 7002H, CTL 7003H, CTL 7004H, CTL 7006H, CTL 7011H, CTL 7014H, CTL 7099Y; or • Year 1 core MT courses in the Intermediate/Senior Concentration: CTL 7004H, CTL 7006H, CTL 7007H, CTL 7011H, CTL 7014H, CTL 7099Y. 	<ul style="list-style-type: none"> • Conditions are lifted and students are registered full-time in the MT program.
6	<ul style="list-style-type: none"> • 4.5 FCEs from the MT program. 	<ul style="list-style-type: none"> • Year 2 core MT courses in the Primary/Junior Concentration or Junior/Intermediate Concentration: CTL 7005H, CTL 7007H, CTL 7008H, CTL 7009H, CTL 7010H, CTL 7013H, CTL 7015H, CTL 7016H; or • Year 2 core MT courses in the Intermediate/Senior Concentration: CTL 7005H, CTL 7008H, CTL 7009H, CTL 7012H, CTL 7015H, CTL 7016H, CTL 7099Y, and additional courses in two teaching subjects. 	<ul style="list-style-type: none"> • Students are registered full-time in the MT program.

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Bachelor of Music Program, Faculty of Music
 Web: <https://music.utoronto.ca/programs.php>
 Email: undergrad.music@utoronto.ca

Master of Teaching Program, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

Pharmacy, Doctor of / Master of Business Administration

Overview

The Leslie Dan Faculty of Pharmacy (LDFP) and the Rotman School of Management offer the **Combined Degree Program (CDP): Doctor of Pharmacy (PharmD) / Master of Business Administration (MBA)**. This five-year program, unique in Canada, provides graduates with unparalleled opportunities for leadership within the health care and pharmaceutical manufacturing sectors.

For the profession of pharmacy, the CDP provides a cadre of future leaders with expertise in both clinical and managerial/business areas, to support continuing evolution of the profession. It allows students to complete the BSc undergraduate program in LDFP and the MBA program at the Rotman School of Management in less time than would be required to complete them separately. The program is only open to students who have completed a bachelor's degree (e.g., BA, BSc, BEng) prior to enrolling in the PharmD program at LDFP and who have successfully completed admission requirements for entry to the MBA program at the Rotman School of Management.

For a general description of CDPs, see General Regulations section 1.5.3.

Degree Programs in This Combination

Pharmacy, PharmD
Management, MBA

Minimum Admission Requirements

- Applicants must apply to and be accepted by the PharmD in the Leslie Dan Faculty of Pharmacy and also the MBA program at the Rotman School of Management. Applicants must satisfy the admission requirements of each program. Undergraduate students apply to the CDP in Year 2.
- Applicants must have completed at least an appropriate bachelor's-level degree (e.g., BA, BSc, BEng) from a recognized institution prior to enrolling in the PharmD program.
- Applicants are required to:
 - Be enrolled full-time in the PharmD program
 - Complete all Year 2 PharmD requirements successfully
 - Be in good academic standing
 - Meet the admission requirements of the two-year MBA program; admission to the MBA program is at the discretion of the Rotman School of Management.

Program Requirements

- Complete all required PharmD coursework and clinical rotations successfully prior to commencing the MBA program.
- Apply the first session of coursework in the MBA program as fulfilling the elective requirement for the PharmD program.
- Meet all academic standing requirements for both programs.
- Maintain full-time (and some part-time) registration according to the registration path (see below) for all years of enrolment in the CDP.
- Complete the program requirements for both degree programs successfully.

Registration Path to Completion

Year	Session	PharmD	MBA
1	Fall	Full-time	
	Winter	Full-time	
	Summer		
2	Fall	Full-time	
	Winter	Full-time	
	Summer		
3	Fall	Full-time	
	Winter	Full-time	

Combined Degree Programs

	Summer	Full-time	
4	Fall	Part-time	Full-time
	Winter		Full-time
	Summer		
5	Fall		Full-time
	Winter		Full-time
	Summer		

Time Limit

The calculation of the time limit for the graduate degree in the CDP begins with full, unconditional admission to the graduate program.

Contact

Doctor of Pharmacy / Management, Master of Business Administration

Web: www.rotman.utoronto.ca/Degrees/MastersPrograms/JointDegrees/PharmDMBA.aspx

Doctor of Pharmacy Program

Leslie Dan Faculty of Pharmacy

Web: www.pharmacy.utoronto.ca/pharmd

Email: pharm.sci@utoronto.ca

Master of Business Administration Program

Rotman School of Management

Web: www.rotman.utoronto.ca/Degrees/MastersPrograms/MBAPrograms.aspx

Email: dimitra.tsalpouris@rotman.utoronto.ca

Collaborative Programs

The School of Graduate Studies offers approximately 40 graduate collaborative programs (CPs). This program category emerges from cooperation between two or more graduate units and their graduate programs. The student has 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 fulfil all the requirements of the degree program in the home unit and any additional requirements of the CP. Each CP 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.

Collaborative Programs

Aboriginal Health

Lead Faculty

Medicine

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Anthropology—MA, MSc, PhD

Counselling Psychology—MEd, EdD

Counselling and Clinical Psychology—MA, PhD

Geography—MA, PhD

Medical Science—MSc, PhD

Nutritional Sciences—MSc, PhD

Public Health Sciences—MPH, PhD

Social Justice Education—MA, MEd, EdD, PhD

Supporting Units

Aboriginal Studies program (undergraduate), Faculty of Arts and 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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Complete Collaborative Program in Aboriginal Health" on their transcript and parchment.

Contact and Address

Web: www.cpah.utoronto.ca

Email: amanda.sheppard@utoronto.ca

Telephone: (416) 978-6459

Fax: (416) 978-1883

Collaborative Program in Aboriginal Health
c/o Dalla Lana School of Public Health
University of Toronto
155 College Street
Toronto, Ontario M5T 3M7
Canada

Programs

Master's 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 a curriculum vitae (CV), 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 a curriculum vitae (CV), 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 full-course equivalent [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

AEC 1290H	Indigenous Healing in Counselling and Psychoeducation
CHL 5421H	Aboriginal Health
NUR 1014H	Politics of Aboriginal Health
SES 1930H	Race, Indigenous Citizenship, and Self Determination: Decolonizing Perspectives

Collaborative Programs

Addiction Studies

Lead Faculty

Medicine

Participating Degree Programs

Anthropology—MA, MSc, PhD

Biomedical Engineering—MASc, PhD

Counselling and Clinical Psychology—MA, PhD

Criminology—MA, PhD

Exercise Sciences—MSc, PhD

Information—MI

Information Studies—PhD

Medical Science—MSc, PhD

Pharmaceutical Sciences—MSc, PhD

Pharmacology—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 successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Addiction Studies" on their transcript and parchment.

Contact and Address

Web: www.dlsph.utoronto.ca/page/collaborative-program-addiction-studies

Email: bruna.brands@camh.ca

Telephone: (416) 535-8501 ext. 6860

Fax: (416) 599-6899

Collaborative Program in Addiction Studies
University of Toronto
Centre for Addiction and Mental Health
33 Russell Street
Toronto, Ontario M5S 2S1
Canada

Programs

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 full-course equivalent (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

APD 1291H	Addictive Behaviours: Approaches to Assessment and Intervention
CHL 5119H	Social and Political Perspectives on Drugs and Addictions
CHL 5120H	Population Health Perspectives on Mental Health and Addictions
CHL 5417H	Tobacco and Health: From Cells to Society
JPM 1005Y	Behavioural Pharmacology
MSC 1085H	Molecular Approaches to Mental Health and Addictions
PAS 3700H	Multidisciplinary Aspects of Addiction Studies
PAS 3701H	Advanced Research Issues in Addictions
PSY 2703H	The Psychology of Addictions
SOC 6123H	Sociology of Addiction
SWK 4616H	Drug Dependencies: Interventive Approaches

Collaborative Programs

Aging, Palliative and Supportive Care Across the Life Course

Lead Faculty

Social Work

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Anthropology—MA, MSc, PhD

Counselling and Clinical Psychology—MA, PhD

Counselling Psychology—MEd, EdD

Dentistry—MSc, PhD

Exercise Sciences—MSc, PhD

Health Administration—MHS

Health Policy, Management and Evaluation—MSc, PhD

Information—M

Information Studies—PhD

Medical Science—MSc, PhD

Music—MA, 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 degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Aging, Palliative

and Supportive Care Across the Life Course" on their transcript and parchment.

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 328, 263 McCaul Street
Toronto, Ontario M5T 1W7
Canada

Programs

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 resumé or curriculum vitae (CV).
 - 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 full-course equivalent [FCE]) and one elective course (0.5 full-course equivalent [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

either aging and the life course or palliative and supportive care).

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. 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 resumé or curriculum vitae (CV).
 - 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 both the master's and doctoral-level core courses (0.5 full-course equivalent [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 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

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 1057H	Interventions to Enhance Health, Abilities and Well-Being
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

Collaborative Programs

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

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

Requests to approve other courses as equivalent to fulfil program requirements may be made to the Program Committee. Students taking either option may choose the master's 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

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. Upon successful completion of the doctoral degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Ancient and Medieval Philosophy” on their transcript and parchment.

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: rachel.barney@utoronto.ca
 Telephone: (416) 978-3178
 Fax: (416) 978-8703

Programs

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)

Collaborative Programs

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. Upon successful completion of the doctoral degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Ancient Greek and Roman History" on their transcript and parchment.

Interested applicants 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: <http://classics.chass.utoronto.ca>

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/gradhist

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

Programs

Doctoral Level

Admission Requirements

- Applicants must meet the admissions criteria of the unit through which they wish to enrol. Interested applicants 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)

Asia-Pacific Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Anthropology—MA

East Asian Studies—MA

Geography—MA

Global Affairs—MGA

History—MA

Management—MBA

Planning—MScPI

Political Science—MA

Public Policy—MPP

Social Work—MSW

Sociology—MA

Women and Gender Studies—MA

Overview

The Collaborative Master's 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 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. Upon successful completion of the master's degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Asia-Pacific Studies" on their transcript and parchment.

Contact and Address

Web: <http://munkschool.utoronto.ca/ai-maps/>

Email: asiapacific.ma@utoronto.ca

Telephone: (416) 946-8832

Fax: (416) 946-8838

Collaborative Master's Program in Asia-Pacific Studies
Asian Institute Munk School of Global Affairs
University of Toronto
1 Devonshire Place, Room 228N
Toronto, Ontario M5S 3K7
Canada

Programs

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
 - 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 (CV)

Program Requirements

- ASI 1000Y.
- 1.0 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
- 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.

Course List

ASI 1000Y Issues in Asia-Pacific Studies

Please consult the Asia-Pacific Studies website for courses offered by participating graduate units.

Collaborative Programs

Bioethics

Lead Faculty

Public Health

Participating Degree Programs

Health Administration—MHS

Health Policy, Management and Evaluation—MSc, PhD

Law—LLM, SJD

Medical Science—MSc, PhD

Nursing Science—MN, PhD

Pharmaceutical Sciences—MSc, PhD

Philosophy—MA, PhD

Public Health Sciences—MPH, MSc, PhD

Rehabilitation Science—MSc, PhD

Religion—MA, PhD

Social Work—PhD

Women and Gender Studies—MA

Overview

The graduate units listed above participate in the Collaborative Program in Bioethics at the master's and doctoral levels.

Applicants with an interest in bioethics register in one of the graduate units associated with the Collaborative Program in Bioethics (CPB). Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Bioethics" on their transcript and parchment.

Contact and Address

Web: jcb.utoronto.ca

Email: carmen.alfred@utoronto.ca

Telephone: (416) 978-0871

Fax: (416) 978-1911

Collaborative Program in Bioethics
Joint Centre for Bioethics (JCB), University of Toronto
Suite 754, 155 College Street
Toronto, Ontario M5T 1P8 Canada

Programs

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 (CV)
 - 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 JCB website lists faculty and bioethicists who are available for advice relating to research proposals.

Program Requirements

- Students will be expected to meet the requirements of the home graduate unit as well as those of the collaborative program. Students should check with their home graduate program whether CPB course requirements may be counted towards the degree.
- Students must complete:
 - SRM 3333Y, a credit/no credit graduate seminar series in bioethics.
 - PHL 2145H, a review of the philosophical foundations of bioethics. Students who have completed an equivalent graduate course in philosophical bioethics may apply to the Program Director to have this requirement waived.
 - Bioethics-related 0.5 full-course equivalent (FCE), normally from the 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, at least one of whom is identified as an affiliated CPB faculty member. 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 (CV)
 - 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 JCB website lists faculty and bioethicists who are available for advice relating to research proposals.

Program Requirements

- Students will be expected to meet the requirements of the home graduate unit as well as those of the collaborative program. Students should check with their home graduate program whether CPB course requirements may be counted towards the degree.
- Students must complete:
 - SRD 4444Y, a credit/no credit graduate seminar series in bioethics.
 - PHL 2145H, a review of the philosophical foundations of bioethics. Students who have completed an equivalent graduate course in philosophical bioethics may apply to the Program Director to have this requirement waived.
 - Bioethics-related 0.5 full-course equivalent (FCE), normally from the suggested list below.
- All doctoral candidates must complete a thesis. The thesis will be supervised by a thesis committee comprising a supervisor and normally two other members, at least one of whom is identified as an affiliated CPB faculty member. The thesis is evaluated according to the procedures and standards of the home graduate unit and must fall within the broad area of bioethics.

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 3001Y	Foundations Seminar I
MSC 3002Y	Foundations Seminar II
MSC 3003Y	Empirical Approaches in Bioethics
MSC 3004Y	Ethics Committees and Consultation

Nursing Science

NUR 1021H	Nursing Ethics
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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

Rehabilitation Science

REH 3120H	International Issues in Disability and Rehabilitation
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Religion

RLG 2007H	Ethics, Society, and Technology
RLG 2018H	Religion and Bioethics

Social Work

SWK 6101H	Critical Evaluation of Social Work Practice Theories
SWK 6308H	Designing and Implementing Quantitative Social Work Research

Collaborative Programs

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 Biophysics—MSc, 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 of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Biomedical Engineering" on their transcript and parchment.

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
Institute of Biomaterials and Biomedical Engineering
University of Toronto
Rosebrugh Building
Room 407, 164 College Street
Toronto, Ontario M5S 3G9
Canada

Programs

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 to 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 SGS and the Program Committee. As part of these requirements:

- The program of study for each MASc or MSc 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.
- Engineering and physical science students will be required to take a biological sciences course such as JPB 1022H *Human Physiology as Related to Biomedical Engineering* (or an equivalent).
- Biological science students will be expected to take a physical sciences course such as JPB 1055H *Bioengineering for Life Scientists* (or an equivalent).
- Students will be expected to take BME 1450H *Bioengineering Science* and pursue a thesis topic relevant to biomedical engineering.
- In addition to the 2.0 FCEs, 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 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 to 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 1.0 full-course equivalent (FCE) and a thesis.
- Engineering and physical science students will be required to take a biological sciences course such as JPB 1022H *Human Physiology as Related to Biomedical Engineering* (or an equivalent).
- Biological science students will be expected to take a physical sciences course such as JPB 1055H *Bioengineering for Life Scientists* (or an equivalent).
- Students will be expected to take BME 1450H *Bioengineering Science* and pursue a thesis topic relevant to biomedical engineering.
- In addition to the 1.0 FCE, students are required to participate in two seminar courses: one of BME 1010H or BME 1011H *Graduate Seminar* series, and JDE 1000H *Ethics in Research*.
- 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 IBBME 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 1460H	Quantitative Fluorescence Microscopy: Theory and Application to Live Cell Imaging
BME 1480H	Experimental Design and Multivariate Analysis in Bioengineering
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

Collaborative Programs

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
JMB 1050H	Biological Materials
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
JPB 1055H	Bioengineering for Life Scientists
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
MBP 1022H	Advanced Cell Biology for Physical Scientists
MIE 1001H	Dynamics II
MIE 1062H	Robot Kinematics and Dynamics
MIE 1101H	Thermodynamics II
MIE 1201H	Fluid Mechanics III
MMS 1026H	Analytical Electron Microscopy
PHM 1109H	Recent Developments in Dosage Form Design
PHM 1110H	Chemical Basis of Drug Metabolism
PHM 1117H	DNA-Drug Interactions
PSL 1432H	Theoretical Physiology
PSL 1052H	Fundamentals of Ion Channel Function
REH 1100H	Theory and Research in Rehabilitation

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

Biomedical Toxicology

Lead Faculty

Medicine

Participating Degree Programs

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 speak to 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 of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Biomedical Toxicology" on their transcript and parchment.

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

Programs

Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative program must first apply to and be admitted 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

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

Germanic Languages and Literatures—MA

German Literature, Culture and Theory—PhD

History—MA, PhD

History and Philosophy of Science and Technology—MA, PhD

History of Art—MA, PhD

Information—Ml

Information Studies—PhD

Italian Studies—MA, PhD

Language and Literacies Education—MA, MEd, PhD

Medieval Studies—MA, PhD

Museum Studies—MMSt

Music—MA, PhD

Religion—MA, PhD

Spanish—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 University of Toronto 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. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Book History and Print Culture" on their transcript and parchment.

Contact and Address

Web: <http://bhpctoronto.com/>

Email: book.history@utoronto.ca

Telephone: (416) 946-3560

Fax: (416) 978-1759

Thomas Keymer, Director

Collaborative Program in Book History and Print Culture

University of Toronto

Massey College

4 Devonshire Place

Toronto, Ontario M5S 2E1

Canada

Programs

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 10 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 full-course equivalent [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 culture may be substituted for the additional 1.0 FCE beyond BKS 1001H and BKS 1002H.

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 10 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

BKS 1001H	Introduction to Book History
BKS 1002H	Book History in Practice
BKS 2000H	Advanced Seminar in Book History and Print Culture
BKS 2001H	Individual Practicum in Book History and Print Culture

For further details and listings of appropriate courses in various graduate units, visit <http://bhpcutoronto.com/>.

Collaborative Programs

Cardiovascular Sciences

Lead Faculty

Medicine

Participating Degree Programs

Biomedical Engineering—MAsc, PhD

Chemical Engineering and Applied Chemistry—MAsc, PhD

Clinical Engineering—MHSc

Dentistry—MSc, PhD

Exercise Sciences—MSc, PhD

Laboratory Medicine and Pathobiology—MSc, PhD

Medical Biophysics—MSc, PhD

Medical Science—MSc, PhD

Pharmaceutical Sciences—MSc, PhD

Pharmacology—MSc, PhD

Physiology—MSc, PhD

Rehabilitation Science—MSc, PhD

Overview

The graduate programs listed above, together with the clinical departments of Anesthesia, Medical Imaging, 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 degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Cardiovascular Sciences" on their transcript and parchment.

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

Programs

Master's Level

Admission Requirements

- Normally, an A- average in previous coursework (publications and research work may be considered for mature students).
- The 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 the 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 electronic copy of the accepted thesis in final form must be submitted to the Cardiovascular Sciences Collaborative Program.
- Complete 0.5 full-course equivalent (FCE) in an approved cardiovascular course listed under the approved Course List.
- Students must attend the annual Student Research Day each year they are in this collaborative program, and make one presentation during training. The presentation must demonstrate excellence in cardiovascular research.

Doctoral Level

Admission Requirements

- Normally, an A- average in previous coursework (publications and research work may be considered for mature students).
- The 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 the 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 electronic copy of the accepted thesis in final

form must be submitted to the Cardiovascular Sciences Collaborative Program.

- Complete two half courses or 1.0 full-course equivalent (FCE) chosen from among the following five courses: JCV 1060H, JCV 3060H, JCV 3061H, JCV 3062H, JCV 3063H, and JCV 3064H.
- Students must attend the annual Student Research Day each year they are in this collaborative program, and make one presentation during training. The presentation must demonstrate excellence in cardiovascular research.

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.

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
JCV 3064H	Advanced Topics in Cardiovascular Sciences—Microvascular Medicine
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

Collaborative Programs

Community Development

Lead Faculty

Public Health

Participating Degree Programs

Adult Education and Community Development—MA, MEd

Geography—MA

Planning—MScPl

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 successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Community Development" on their transcript and parchment.

Contact and Address

Web: www.dlsph.utoronto.ca/page/collaborative-program-community-development-cdcp

Email: blake.poland@utoronto.ca

Telephone: (416) 978-7542

Fax: (416) 978-1883

Collaborative Program in Community Development
Dalla Lana School of Public Health
University of Toronto
155 College Street, 6th Floor
Toronto, Ontario M5T 3M7
Canada

Programs

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 resumé or curriculum vitae (CV).
 - 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 fulfil the requirements of the Collaborative Program in Community Development, they must complete the following:
 - The core course UCS 1000H Community Development
 - An additional 1.0 full-course equivalent (FCE) in the subject area of the collaborative program, to be approved by the Collaborative Program in Community Development 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. Or where required by the home degree program, a practicum placement with community development content as approved by the collaborative program core faculty member from that home degree 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

Collaborative Programs

Students must take an additional 1.0 FCE in the subject area of the collaborative program, to be approved by the Collaborative Program in Community Development Director. The following is a list of the currently approved courses; the list is reviewed annually and posted on the program website.

Adult Education

LHA 1102H	Community Development: Innovative Models
LHA 1104H	Community Education and Organizing
LHA 1131H	Special Topics in Adult Education (with approval of the Director)
LHA 1182H	Nonprofits, Co-operatives, and the Social Economy
LHA 1190H	Community Healing and Peacebuilding
LHA 1194H	The Internet, Adult Education, and Community Development
LHA 3119H	Global Perspectives on Feminist Education, Community Development and Community Transformation
LHA 3131H	Special Topics in Adult Education (with approval of the Director)
LHA 3182H	Citizenship Learning and Participatory Democracy
LHA 1196H	Walking Together, Talking Together: The Praxis of Reconciliation

Counselling Psychology

APD 1290H	Indigenous Healing in Counselling and Psychoeducation
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Public Health Sciences

CHL 5112H	Community Development in Health
CHL 5126H	Building Community Resilience
CHL 5411H	International Health
CHL 7001H	Directed Reading in an Approved Field of Community Health

Social Work

SWK 4210H	Promoting Empowerment: Working at the Margins
SWK 4304H	Globalization and Trans-nationalization: Social Work Responses Locally and Globally
SWK 4306H	Process of Social Exclusion, Marginalization, and Resistance
SWK 4422H	Social Housing and Homelessness

SWK 4512H	Creating Knowledge to Inform Critical Practice
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Nursing

NUR 1047Y	Community Participation and Health
NUR 1083H	Comparative Politics of Health Policy in a Globalizing World

Planning

JPG 1410H	Institutional and Organizational Ecology
JPG 1415H	Global Environmental Justice and Social Movements
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 1518H	Sustainability and Urban Communities
JPG 1615H	Planning the Social Economy
JPG 1812Y	Planning for Change

Collaborative Programs

Comparative, International and Development Education

Lead Faculty

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Curriculum Studies and Teacher Development—MA, MEd, PhD

Educational Leadership and Policy—MA, MEd, EdD, PhD

Higher Education—MA, MEd, EdD, PhD

Language and Literacies Education—MA, MEd, PhD

Social Justice 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. These issues are approached 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 broad and diverse scope of the CIDE program will appeal to both Canadian and international students interested in applying a comparative and international lens in their professional work at home or abroad.

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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Comparative, International and Development Education" on their transcript and parchment.

Contact and Address

Web: www.oise.utoronto.ca/cidec

Email: cidec.oise@utoronto.ca

Telephone: (416) 978-0892

Fax: (416) 926-4749

Comparative, International and Development Education Centre (CIDECE)

Ontario Institute for Studies in Education

University of Toronto

252 Bloor Street West, 7th Floor

Toronto, Ontario M5S 1V6

Canada

Programs

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.
- Applicants who have questions concerning their eligibility should contact the CIDECE administrator at cidec.oise@utoronto.ca.
- Prospective applicants should review the detailed information about the CIDE program 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.
- Course requirements are as follows:
 - 0.5 full-course equivalent (FCE) required introduction: CIE 1001H *Introduction to Comparative, International and Development Education*. CIE 1001H must be taken in the first year of the full-time student's academic course load, or within the first four courses of the part-time and flexible-time student's academic work.
 - 0.5 core FCE CIDE master's-level course
 - 1.0 FCE (equivalent to two half courses) other core CIDE or elective master's-level courses
- Regular participation in and attendance at the CIDE Seminar Series. Participation at a minimum of five seminars required.
- Students who write a thesis or major research paper as part of their program are also required to make at least one presentation to the CIDE community related to their research/development work.

Collaborative Programs

- 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.
- Students **officially registered in the collaborative program prior to 2005-06** and who had undertaken CTL 6000H *Introduction to Comparative, International and Development Education* are not required to take CIE 1001H.

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.
- Applicants who have questions concerning their eligibility should contact the CIDE administrator at cidec.oise@utoronto.ca.
- Prospective applicants should review the detailed information about the CIDE program at www.oise.utoronto.ca/cidec. They are strongly advised to contact one of the participating 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.
- Course requirements are 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. CIE 1001H must be taken in the first year of the full-time student's academic course load, or within the first four courses of the part-time and flexible-time student's academic work. Students who have completed CIE 1001H at the master's level must select a 0.5 FCE from the list of elective courses to fulfil this requirement.
 - 0.5 FCE core CIDE doctoral-level course
 - 1.0 FCE (equivalent to two half courses) other core CIDE or elective 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
CIE 1005H	Special Topics in Comparative, International and Development Education
CIE 1006H	Transnational Perspectives on Democracy, Human Rights and Democratic Education in an Era of Globalization

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 1319H	Religious Education: Comparative and International Perspectives
CTL 1864H	Methodologies for Comparing Educational Systems
CTL 3015H	Seminar in Second-Language Literacy Education

Leadership, Higher and Adult Education

LHA 1016H	School Program Development and Implementation
LHA 1019H	Diversity and the Ethics of Educational Administration
LHA 1114H	Comparative and International Perspectives in Adult Education

Collaborative Programs

LHA 1146H	Women, War, and Learning
LHA 1807H	Strategic and Long-Range Planning for Postsecondary Systems
LHA 1825H	Comparative Education: Theory and Methodology
LHA 1826H	Comparative Higher Education
LHA 3104H	Adult Education and Marxism
LHA 3131H	Special Topics in Adult Education
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education
LHA 3182H	Citizenship Learning and Participatory Democracy
LHA 3810H	International Academic Relations

Social Justice Education

SJE 1924H	Modernization, Development, and Education in African Contexts
SJE 1927H	Migration and Globalization
SJE 3911H	Cultural Knowledges, Representation, and Colonial Education

Elective Courses

The list of CIDE elective courses may change. Please refer to www.oise.utoronto.ca/cidec for the current list.

Curriculum, Teaching and Learning

CTL 1031H	Language, Culture, and Identity: Using the Literary Text in Teacher Development
CTL 1033H	Multicultural Perspectives in Teacher Development: Reflective Practicum
CTL 1307H	Identity Construction and Education of Minorities
CTL 1405H	The Origins of Modern Schooling I: Problems in Education Before the Industrial Revolution
CTL 1406H	The Origins of Modern Schooling: Issues in the Development of the North American Educational System
CTL 1427H	Commemorating Canada, 1800s–1900s
CTL 1430H	Gendered Colonialisms, Imperialisms, and Nationalisms in History
CTL 1448H	Popular Culture and the Social History of Education II
CTL 1816H	Minority Education and Inclusion: Policies in Practices
CTL 1819H	Multicultural Literature in the Schools: Critical Perspectives and Practices

CTL 3000H	Foundations of Bilingual and Multicultural Education
CTL 3008H	Critical Pedagogy, Language, and Cultural Diversity
CTL 3015H	Seminar in Second-Language Literacy Education
CTL 3018H	Language Planning and Policy
CTL 3018H	Politique et aménagement linguistique
CTL 3024H	Second Language Teacher Education
CTL 3025H	Educational Sociolinguistics
CTL 3026H	Pragmatics in Language Education
CTL 3031H	Children's Literature Within a Multicultural Context
CTL 3799H	Special Topics in Language and Literacies Education: Master's Level
CTL 3999H	Special Topics in Language and Literacies Education: Doctoral Level

Leadership, Higher and Adult Education

LHA 1020H	Teachers and Educational Change
LHA 1029H	Special Applications of the Administrative Process
LHA 1041H	Educational Administration II: Social and Policy Context of Schooling
LHA 1047H	Managing Changes in Classroom Practice
LHA 1065H	Educational Equity and Excellence in International Comparison
LHA 1102H	Community Development: Innovative Models
LHA 1131H	Special Topics in Adult Education
LHA 1145H	Participatory Research in the Community and the Workplace
LHA 1180H	Aboriginal World Views: Implications for Education
LHA 1181H	Embodied Learning and Qi Gong
LHA 1184H	Aboriginal Knowledge: Implications for Education
LHA 1190H	Community Healing and Peacebuilding
LHA 1196H	Walking Together, Talking Together: The Praxis of Reconciliation
LHA 1803H	Recurring Issues in Postsecondary Education
LHA 1806H	Systems of Higher Education
LHA 1820H	Special Topics in Higher Education: Master's Level

Collaborative Programs

LHA 1846H	Internationalization of Higher Education in a Comparative Perspective
LHA 2006H	Educational Finance and Economics (exclusion: students who have taken LHA 1017H or LHA 1841H are not eligible to take LHA 2006H)
LHA 3029H	Special Topics in Educational Administration
LHA 3041H	Administrative Theory and Educational Problems II: Doctoral Seminar on Policy Issues in Education
LHA 3045H	Educational Policy and Program Evaluation
LHA 3055H	Democratic Values, Student Engagement, and Democratic Leadership
LHA 3103H	Teaching about Global and Social Issues
LHA 3119H	Global Perspectives on Feminist Education, Community Development, and Community Transformation
LHA 3132H	Special Topics in Women in Development and Community Transformation
LHA 3140H	Decolonization and Transformative Education

Social Justice Education

SJE 1420H	European Popular Culture and the Social History of Education I
SJE 1422H	Education and Family Life in the Modern World I
SJE 1438H	Democratic Approaches to Pedagogy
SJE 1447H	Technology in Education: Philosophical Issues
SJE 1912H	Foucault and Research in Education and Culture: Discourse, Power, and the Subject
SJE 1921Y	The Principles of Anti-Racism Education
SJE 1922H	Sociology of Race and Ethnicity
SJE 1925H	Indigenous Knowledge and Decolonization: Pedagogical Implications
SJE 1926H	Race, Space and Citizenship: Research Methods
SJE 1956H	Social Relations of Cultural Production in Education
SJE 2999H	Special Topics in Sociological Research in Education

SJE 3910H	Advanced Seminar on Race and Anti-Racism Research Methodology in Education
SJE 3912H	Race and Knowledge Production: Research Methods
SJE 3915H	Franz Fanon and Education
SJE 3933H	Globalization and Transnationality: Feminist Perspectives

Geography

JPG 1509H	Feminism, Postcoloniality, and Development
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Political Science

JPE 2408Y	Political Economy of International Development
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Collaborative Programs

Developmental Biology

Lead Faculty

Medicine

Participating Degree Programs

Biochemistry—MSc, PhD

Biomedical Engineering—MAsc, PhD

Cell and Systems Biology—MSc, PhD

Clinical Engineering—MHSc

Immunology—MSc, PhD

Laboratory Medicine and Pathobiology—MSc, PhD

Medical Science—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 PhDlevel 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 degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Developmental Biology" on their transcript and parchment.

Contact and Address

Web: www.utoronto.ca/devbiol

Email: dev.bio@utoronto.ca

Telephone: (416) 586-4694

Fax: (416) 586-8857

Dr. Julie Brill, Director
Collaborative Program in Developmental Biology
Department of Molecular Genetics
University of Toronto
Room 850-1, 600 University Avenue
Toronto, Ontario M5G 1X5
Canada

Programs

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 an 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:

Collaborative Programs

JDB 1024Y ⁰	Topics in Developmental Biology
JDB 1025H	Developmental Biology
JDB 1026Y ⁰	Student Seminars in Developmental Biology

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

Collaborative Programs

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, Theatre and Performance Studies—MA, PhD

English—MA, PhD

Geography—MA, MSc, PhD

Germanic Languages and Literatures—MA

German Literature, Culture and Theory—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

Social Justice Education—MA, MEd, EdD, PhD

Sociology—MA, PhD

Spanish—MA, PhD

Women and Gender Studies—MA, PhD

Supporting Units

Anne Tanenbaum 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 multistrated 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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Diaspora and Transnational Studies" on their transcript and parchment.

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
University of Toronto
Suite 230, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Programs

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.

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 (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.
 - 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

Collaborative Programs

Earth Sciences and Physics

Lead Faculty

Arts and Science

Participating Degree Programs

Earth Sciences—MSc, PhD

Physics—MSc, PhD

Overview

The graduate programs listed above participate in the Collaborative MSc and PhD programs in Earth Sciences and Physics. These programs foster graduate education in those areas of study that overlap traditional departmental boundaries.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Earth Sciences and Physics” on their transcript and parchment.

Contact and Address

Email: bailey@geology.utoronto.ca

Telephone: (416) 978-3231

Fax: (416) 978-7606

Collaborative Program in Earth Sciences and Physics
c/o R. C. Bailey
University of Toronto
McLennan Physical Laboratories
Room 501, 60 St. George Street
Toronto, Ontario M5S 1A7
Canada

Programs

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 Earth Sciences or Physics, and to the collaborative program. Note that MSc students enrolled in option I in Physics or in the course-only option in Earth Sciences are not eligible to enrol in the collaborative program.
- Applicants must submit a supplementary brief application form, available from either the home department or collaborative program office, to the collaborative program Director.
- Normal deadlines apply for application to the School of Graduate Studies. 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 full-course equivalents (FCEs) as follows:
 - the core course GLG 1101H (0.5 FCE)
 - two lecture courses in Earth Sciences (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 earth sciences (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 Earth Sciences Department and the Geophysics Lab in the Physics Department and to participate in the graduate student seminar programs of both the Earth Sciences 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 Earth Sciences or Physics, and to the collaborative program.
- Applicants must submit a supplementary brief application form, available from either the home department or 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.
- The lecture course requirements are the Earth Sciences 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.

Collaborative Programs

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. Upon successful completion of the PhD requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Editing Medieval Texts" on their transcript and parchment.

Contact and Address

Web: <http://medievaltexts.utoronto.ca>

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

Programs

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 1384H, 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

Courses marked (PR) have prerequisites; further information may be obtained from the Centre of Medieval Studies' website.

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

Educational Policy

Lead Faculty

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Curriculum Studies and Teacher Development—MA, MEd, PhD

Developmental Psychology and Education—MA, MEd, PhD

Educational Leadership and Policy—MA, MEd, EdD, PhD

Higher Education—MA, MEd, EdD, PhD

Language and Literacies Education—MA, MEd, PhD

Social Justice Education—MA, MEd, 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. There are two required courses and an annual lecture series.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Educational Policy" on their transcript and parchment.

Contact and Address

Web: www.oise.utoronto.ca/lhae/Programs/Collaborative_Programs/Educational_Policy.html

Collaborative Program in Educational Policy
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Programs

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 a 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. Please direct inquiries to the address listed above.

Program Requirements

- All master's students in the collaborative program:
 - Take the core half course LHA 3045H *Educational 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.
 - 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 committee member.
- MEd program: The total number of courses required for graduation will equal 6, 8, or 10.
- MA program: The total number of courses required for graduation will equal 6 or 8.

Collaborative Programs

Course List

Master's-Level Core Course

LHA 3045H	Educational Policy and Program Evaluation
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Master's-Level Electives

APD 1211H	Psychological Foundations of Early Development and Education
APD 1241H	Outcomes of Early Education and Child Care
APD 1259H	Family Relationships with Early Childhood Services and Schools
LHA 1016H	School Program Development and Implementation
LHA 1018H	Political Skill in the Education Arena
LHA 1020H	Teachers and Educational Change
LHA 1029H	Special Applications of Educational Leadership and Policy (Master's)
LHA 1045H	Language Policy Across the Curriculum
LHA 1171H	Foundations of Aboriginal Education in Canada
LHA 1189H	Work and Literacy: Theory, Policy, and Practice
LHA 1820H	Special Topics in Higher Education: Master's Level
SJE 1902H	Introductory Sociological Research Methods in Education
SJE 1903H	Major Concepts and Issues in Education
SJE 1912H	Foucault and Research in Education and Culture: Disclosure, Power, and the Subject
SJE 1922H	Sociology of Race and Ethnicity
SJE 1951H	The School and the Community
SJE 1954H	Marginality and the Politics of Resistance

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. Please direct inquiries to the address listed above.

Program Requirements

- All doctoral students in the collaborative program:
 - Take the core half course: LHA 3045H *Educational Policy and Program Evaluation*, if not already taken.
 - Take the core half course LHA 3145H *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 eight, depending on the requirements of the student's home program.

Course List

Doctoral-Level Core Courses

LHA 3045H	Educational Policy and Program Evaluation
LHA 3145H	Advanced Issues in Educational Policy Analysis and Program Evaluation

Doctoral-Level Electives

CTL 3000H	Foundations of Bilingual and Multicultural Education
CTL 3008H	Critical Pedagogy, Language, and Cultural Diversity

Collaborative Programs

CTL 3018H	Language Planning and Policy
JSA 5147H	Language, Nationalism, and Post-nationalism
LHA 3043H	Survey Research in Educational Leadership and Policy (RM)
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education
SJE 2941H	Bourdieu: Theory of Practice in Social Sciences
SJE 2942H	Education and Work
SJE 2999H	Special Topics in Sociological Research in Education

Collaborative Programs

Engineering Education

Lead Faculty

Applied Science and Engineering

Participating Degree Programs

Chemical Engineering and Applied Chemistry—

MASc, PhD

Civil Engineering—MASc, PhD

Curriculum Studies and Teacher Development—MA,

PhD

Mechanical and Industrial Engineering—MASc, PhD

Overview

The Collaborative Program in Engineering Education is an interdisciplinary program designed for students within home programs in engineering or education who are interested in pursuing courses and research in engineering education. This program allows students to join a small community of scholars interested in research and learning at the nexus of education and engineering practice. A core course provides students with an introduction to engineering learning, knowledge, assessment, and culture and community, while the theoretical foundations, methods, and topics related to engineering education research are explored in a seminar course.

Research is supervised by a graduate faculty member in the student's home department. Opportunities exist to assess and apply research findings as part of instructional initiatives within the Faculty of Applied Science and Engineering. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Engineering Education" on their transcript and parchment.

Contact and Address

Web: <http://gradstudies.engineering.utoronto.ca>

Email: natalieyl.leung@utoronto.ca

Telephone: (416) 978-5932

Fax: (416) 978-8605

Collaborative Program in Engineering Education
Faculty of Applied Science and Engineering
200 College Street
Toronto, Ontario M5S3E5
Canada

Programs

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.

- Applicants to the collaborative program must submit the following:
 - curriculum vitae (CV)
 - personal statement explaining how the proposed program of study and specific research interests relate to engineering education
 - letter of recommendation from a faculty member confirming their willingness to supervise and support the student's research and outlining why the student would be well suited for the Engineering Education Collaborative Program.

Program Requirements

Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative program. Collaborative program students must:

- Complete a total of 0.5 full-course equivalent (FCE) as follows:
 - the core course APS 1204H *Instructional Design in Engineering Education* (0.5 FCE).
- Participate continuously in a seminar series (CR/NCR) APS 1205Y *Engineering Education Research Seminar*.
- Undertake the major paper or thesis required by the home degree program with a focus on engineering education under the supervision of a collaborative program core faculty member.

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.
- Applicants to the collaborative program must submit the following:
 - curriculum vitae (CV)
 - personal statement explaining how the program of study and specific research interests relate to engineering education
 - letter of recommendation from a faculty member confirming their willingness to supervise and support the student's research and outlining why the student would be well suited for the Engineering Education Collaborative Program.

Program Requirements

Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative program. Collaborative program students must:

- Complete a total of 1.0 full-course equivalent (FCE) as follows:

Collaborative Programs

- the core course APS 1204H *Instructional Design in Engineering Education* (0.5 FCE)
- an elective course in engineering education (0.5 FCE); see the elective course list
- Participate continuously in a seminar series (CR/NCR) APS 1206Y beginning in Year 1; deliver a seminar on the research topic in Year 2; design and deliver one or more instructional workshops and make a final presentation on their research both in the final year.
- Complete the thesis required by the home degree program with a focus on engineering education under the supervision of a collaborative program core faculty member.
- Complete the core course APS 1204H; students who have completed the course at the master's level may substitute an elective course at the doctoral level from the elective list and with the approval of the collaborative program director.

Course List

Core Courses

APS 1204H	Instructional Design in Engineering Education
APS 1205Y	Engineering Education Research Seminar—Master's Level
APS 1206Y ⁰	Engineering Education Research Seminar—Doctoral Level

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

Elective Courses (PhD Level Only)

Department of Curriculum, Teaching and Learning

CTL 1018H	Introduction to Qualitative Inquiry in Curriculum, Teaching, and Learning
CTL 1028H	Constructive Feedback in Teaching
CTL 1032H	Knowing and Teaching
CTL 1041H	Research Methods in Education
CTL 1042H	Instrument Development in Education
CTL 1047H	Self-Assessment
CTL 1206H	Teaching and Learning Science
CTL 1207H	Teaching and Learning about Science: Issues and Strategies in Science, Technology, Society and Environment (STSE) Education
CTL 1211H	Action Research in Science, Mathematics, and Technology Education

CTL 1215H	Teaching and Learning about Science and Technology: Beyond Schools
CTL 1218H	Culture and Cognition in Mathematics, Science and Technology Education
CTL 1306H	Qualitative Research Methods in Education: Concepts and Methods
CTL 1603H	Introduction to Knowledge Building
CTL 1608H	Constructive Learning and Design of Online Environments
CTL 1842H	Mixed Methods Research in Education: Combining Qualitative and Quantitative Inquiries
CTL 1846H	Assessment for Teaching and Learning

Faculty of Applied Science and Engineering

APS 520H	Technology, Engineering, and Global Development
APS 530H	Appropriate Technology and Design for Global Development
APS 1003H	Professional Education and Instruction
APS 1001H	Project Management
APS 1010H	Cognitive and Psychological Foundations of Effective Leadership
APS 1011H	Concepts and Application of Authentic Leadership
APS 1012H	Management of Innovation in Engineering
APS 1013H	Applying Innovation in Engineering
APS 1018H	History and Philosophy of Engineering
APS 1501H	Leadership and Leading in Groups and Organizations
JEI 1901H	Technology, Society, and the Environment I
MIE 1402H	Experimental Methods in Human Factors Research
MIE 1403H	Analytical Methods in Human Factors Research
MIE 1413H	Statistical Models in Empirical Research
MIE 1415H	Analysis and Design of Cognitive Work

Faculty of Information

KMD 2001H	Human-Centred Design
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Collaborative Programs

Environment and Health

Lead Faculty

Arts and Science

Participating Degree Programs

Community Health—MScCH

Environmental Science—PhD

Geography—MA, MSc, PhD

Medical Science—MSc, PhD

Planning—MScPI, PhD

Public Health Sciences—MPH, PhD

Women and Gender Studies—MA, PhD

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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Environment and Health" on their transcript and parchment.

Contact and Address

Web: [www.environment.utoronto.ca/](http://www.environment.utoronto.ca/Graduate/Programs/EnvironmentHealthCollaborativeProgram.aspx)

Graduate/Programs/

EnvironmentHealthCollaborativeProgram.aspx

Email: environment@utoronto.ca

Telephone: (416) 978-3475

Fax: (416) 978-3884

Environment and Health (EH) Collaborative Program
School of the Environment, Earth Sciences Centre
University of Toronto
Room 1016V, 33 Willcocks Street
Toronto, Ontario M5S 3E8
Canada

Programs

Master's Level and Doctoral Level

Admission Requirements

- Students who wish to enrol in the EH Collaborative Program offered by the School of the 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.
- Prospective students who are planning to enrol in the EH Collaborative Program are strongly encouraged to submit copies of the documents indicated on the School of the Environment'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 School of the 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 School of the Environment.

Doctor of Philosophy Degrees

- Complete the core course ENV 4001H (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 School of the 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 School of the Environment) and at least one other member from a collaborating unit. A copy of the final thesis must be submitted to the School of the Environment.

Course List

The School of the 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 in the Environmental Studies collaborative program towards completing their Environment and Health collaborative program requirements.

Core Course

ENV 4001H	Graduate Seminars in Environment and Health
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Elective Courses

CHL 5416H	Environmental Epidemiology
CHL 5902H	Advanced Occupational Hygiene
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
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
LHA 1837H	Environmental Health, Transformative Higher Education, and Policy Changes

Collaborative Programs

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 specialities.

The collaborative program is administered and coordinated by the Division of Environmental Engineering and Energy Systems in conjunction with the participating departments and the School of the Environment.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Environmental Engineering" on their transcript and parchment.

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
Room 1015, 44 St. George Street
University of Toronto
Toronto, Ontario M5S 2E4
Canada

Programs

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 specialities offered by the collaborating departments. Many additional courses relevant to environmental engineering are offered by the School of the Environment. See the calendar entries for the collaborating departments and the School of the 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.

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 specialities offered by the collaborating departments. Many additional courses relevant to environmental engineering are offered by the School of the Environment. See the calendar entries for the collaborating departments and the School of the 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.

Collaborative Programs

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—MSc, MEng, PhD

Chemistry—MSc, PhD

Earth Sciences—MSc, MSc, PhD

Ecology and Evolutionary Biology—PhD

Forest Conservation—MFC

Forestry—MScF, PhD

Geography—MA, MSc, PhD

Global Affairs—MGA

Information—MI

Information Studies—PhD

Management—MBA, PhD

Physics—MSc, PhD

Planning—MScPI, PhD

Political Science—MA, PhD

Public Policy—MPP

Religion—MA, PhD

Social Justice Education—MA, MEd, EdD, PhD

Sociology—MA, PhD

Women and Gender Studies—MA, PhD

Overview

The graduate programs listed above participate in the Environmental Studies (ES) Collaborative Program which is offered through the School of the Environment 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 School of the Environment currently has graduate students from across the disciplinary spectrum.

The School of the Environment 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 program is the interdisciplinary environment in which teaching and research are 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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Environmental Studies" on their transcript and parchment.

Contact and Address

Web: www.environment.utoronto.ca/

Graduate/Programs/

EnvironmentalStudiesCollaborativeProgram.aspx

Email: environment@utoronto.ca

Telephone: (416) 978-3475

Fax: (416) 978-3884

Environmental Studies Collaborative Program
School of the Environment, Earth Sciences Centre
University of Toronto
Room 1016V, 33 Willcocks Street
Toronto, Ontario M5S 3E8
Canada

Programs

Master's Level and Doctoral Level

Admission Requirements

- Students who wish to enrol in the Environmental Studies (ES) Collaborative Program offered by the School of the 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.
- Prospective students are strongly encouraged to submit copies of the documents indicated on the School of the Environment'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 School of the 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 School of the Environment also offers students in the 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 School of the Environment's website under the Environmental Studies Collaborative Program.

Master's Degrees Coursework Option

- 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).
- Note: For a complete and most up-to-date list of collaborative program requirements by each participating degree program for master's students in the coursework option, please visit the website.

Master's Degrees 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.

Doctor of Philosophy 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 School of the Environment's seminar series or at the School of the 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 School of the Environment.

Course List

The School of the 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 in the Environment and Health collaborative program collaborative program towards completing their Environmental Studies collaborative program requirements. For a current graduate course listing, please refer to the School of the Environment website.

Core Course

ENV 1001H | Environmental Decision Making

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

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

Other Elective Courses

Anthropology

ANT 6018H | Theories of Nature and Society

Chemical Engineering and Applied Chemistry

JNC 2503H | Environmental Pathways

Forestry and Social Work

JFS 1460H | Community-Based Natural Resource Management

Geography

GGR 1214H	Global Ecology and Biogeochemical Cycles
JGE 1413H	Environmental Impact Assessment
JGE 1420H	Urban Waste Management
JGE 1425H	Livelihoods, Poverty, and Environment in the Developing Countries
JGE 1609H	Cities, Industry, and the Environment

Geography and Planning

JPG 1402H	Environment and Development
JPG 1403H	Political Ecology of African Environments
JPG 1404H	Issues in Global Warming
JPG 1406H	Sustainable Building Energy Use and Supply
JPG 1407H	Efficient Use of Energy

Collaborative Programs

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

History

HIS 1111H	Topics in North American Environmental History
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Leadership, Higher and Adult Education

LHA 1104H	Community Education and Organizing
LHA 1131H	Special Topics in Adult Education: Adult Education for Sustainability
LHA 1160H	Introduction to Transformative Learning Studies

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
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Philosophy

JVP 2147H	Environmental Philosophy
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Social Justice Education

SJE 1909H	Environmental Sustainability and Social Justice I
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Ethnic and Pluralism Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Anthropology—MA, PhD

Educational Leadership and Policy—MA, MEd, EdD, PhD

European and Russian Affairs—MA

Geography—MA, PhD

Global Affairs—MGA

History—MA, PhD

Industrial Relations and Human Resources—MIRHR, PhD

Language and Literacies Education—MA, MEd, PhD

Political Science—MA, PhD

Public Policy—MPP

Religion—MA, PhD

Social Justice Education—MA, MEd, EdD, PhD

Social Work—MSW, PhD

Sociology—MA, PhD

Women and Gender Studies—MA, PhD

Overview

Ethnic and Pluralism Studies at the University of Toronto offers students with interests in ethnic and pluralism studies the opportunity to widen their horizons, to expand their knowledge beyond a single disciplinary base, and to take advantage of the wealth and diversity of academic resources available at the University of Toronto—a great university situated in a large and culturally cosmopolitan city.

The graduate programs listed above participate in the Collaborative Program in Ethnic and Pluralism Studies. They contribute courses and provide facilities and supervision for graduate research.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Ethnic and Pluralism Studies” on their transcript and parchment.

Contact and Address

Web: <http://munkschool.utoronto.ca/ethnicstudies/>

Email: ethnic.studies@utoronto.ca

Telephone: (416) 946-4079

Collaborative Program in Ethnic and Pluralism Studies
Munk School of Global Affairs
University of Toronto
1 Devonshire Place, room 055S
Toronto, Ontario M5S 3K7

Canada

Programs

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.
- Applicants to the Master of Arts, Master of Education, Master of Global Affairs, Master of Industrial Relations and Human Resources, Master of Public Policy, Master of Science, and Master of Social Work degree programs are admitted by the participating graduate unit under the General Regulations of the School of Graduate Studies.

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 Education and Doctor of Philosophy degree programs are admitted under the General Regulations of the School of Graduate Studies.

Collaborative Programs

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 FCE will be in disciplines 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. Students who have taken this course for the master's degree need not repeat it.
- When the student's graduate unit requires more than one comprehensive examination, one of the examinations will be in ethnicity.
- When there are no comprehensive examinations, but an examination on the thesis proposal is required, the examination will focus on ethnicity, and in all cases the thesis will be on subject matter dealing with ethnicity.
- The PhD thesis will focus on ethnicity. The supervisor of the thesis committee will be a specialist in the area of ethnicity.

Course List

1. Courses eligible for credit towards meeting program requirements in Ethnic and Pluralism Studies are listed below.
2. Students should check with the professor responsible for each course since a prerequisite may be required.
3. Not all courses are offered each year. Please consult the program office or the appropriate graduate unit for course availability.
4. Students wishing to use courses other than those listed below for credit towards meeting program requirements must submit a formal request in writing.

Coordinating Seminar

JTH 3000H	Ethnic Relations Theory, Research, and Policy
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Anthropology

ANT 6034H,Y	Advanced Research Seminar IV (Ethnicity)
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JSA 5147H	Language, Nationalism, and Post-Nationalism (also offered by the Department of Social Justice Education)
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Curriculum, Teaching and Learning

CTL 1424H	Religion, Ideology, and Social Movement in the Development of North American Education
CTL 1428H	Immigration and the Development of Canadian Education
CTL 1429H	Ethnicity and the Development of Canadian Education
CTL 3026H	Pragmatics in Language Education
CTL 3799H	Special Topics in Language and Literacies Education: Master's Level
CTL 3803H	Ethnographic Research in the Language Disciplines

Economics

ECO 2800H	Labour Economics I (prerequisite: an undergraduate course in statistics and a graduate course in applied statistics)
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European, Russian, and Eurasian Studies

ERE 1188H	Identity, Ethnicity, and Cultural Change in Eastern Europe
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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 of the State

History

HIS 1117H	Canada: Colonialism/Postcolonialism
HIS 1287H	Polish Jews Since the Partitions of Poland (joint graduate/undergraduate)
HIS 1297H	National Survival in Eastern Europe
HIS 1440H	Irish Nationalism in Canada, 1858–1870

Industrial Relations and Human Resources

IRE 1725H	Cross Cultural Differences in Organizational Contexts
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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

Collaborative Programs

given to JD students and that many LAW courses are full by the end of the Faculty of Law add/drop period.

LAW 5022H	Introduction to Islamic Law
LAW 7024H	Citizenship: Inside and Out
LAW 7052Y	Aboriginal Peoples and Canadian Law
LAW 7060Y	Discrimination Law
LAW 7066H	Canadian Migration Law
LAW 7076H	Refugee Law
LAW 7078H	Law of Forced Migration

Leadership, Higher and Adult Education

LHA 1029H	Special Applications of Educational Leadership and Policy: Master's Level
LHA 1042H	Educational Leadership and Diversity
LHA 3042H	Field Research in Educational Leadership and Policy

Political Science

POL 2001Y	Problems of Political Community
POL 2026H,Y	Topics in Political Thought I
POL 2102H	Topics in Canadian Politics I
POL 2103H	Topics in Canadian Politics II
POL 2207H	Topics in International Politics III
POL 2361Y	Globalization and Indigenous Politics
POL 2391H,Y	Topics in Comparative Politics III
POL 2392H,Y	Topics in Comparative Politics IV

Public Policy

PPG 1005H	The Social Context of Policy-Making (this course often includes content related to ethnicity and immigration; please verify a particular instructor's course with the Ethnic and Pluralism Studies program)
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Religion

RLG 3236H	Religious Pluralism and the Church
RLG 3512H	Introduction to Islamic Law
RLG 3931H	Topics in North American Religions

Social Justice Education

JSA 5147H	Language, Nationalism, and Post-Nationalism
JTE 1952H	Language, Culture, and Education

SJE 1921Y	The Principles of Anti-Racism Education
SJE 1922H	Sociology of Race and Ethnicity
SJE 1926H	Race, Space, and Citizenship: Research Methods
SJE 1927H	Migration and Globalization
SJE 3933H	Globalisation and Transnationality: Feminist Perspectives

Social Work

SWK 4210H	Promoting Empowerment: Working at the Margins
SWK 4304H	Globalization and Transnationalism: Intersections of Policy and Community Practice Locally and Globally
SWK 4306H	Theoretical Approaches to Defining Social Injustice and Engaging in Social Change
SWK 4617H	Cross-Cultural Social Work Practice
SWK 4658H	Social Work with Immigrants and Refugees

Sociology

SOC 6002H	Immigration I
SOC 6003H	Immigration II
SOC 6009H	Ethnicity I
SOC 6109H	Ethnicity II

Women and Gender Studies

WGS 1026H	Special Topics in Race and Feminism
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Collaborative Programs

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, interdepartmental 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 participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Genome Biology and Bioinformatics" on their transcript and parchment.

Contact and Address

Web: www.gbb.utoronto.ca

Email: TBD

Telephone: (416) 978-0774

Collaborative Program in Genome Biology and Bioinformatics
Department of Biochemistry
University of Toronto
Room 5207, Medical Sciences Building
Toronto, Ontario M5S 1A8
Canada

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. 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
JTB 2010H*	Proteomics and Functional Genomics

Group II

BME 1458H	Pattern Discovery Methods for Biomedical Engineering
CSC 2417H	Algorithms for Genome Sequence Analysis
CSC 2418H	Computational Structural Biology
CSC 2515H	Machine Learning
JTB 2020H*	Applied Bioinformatics

Collaborative Programs

Global Health

Lead Faculty

Public Health

Participating Degree Programs

Anthropology—PhD

Chemical Engineering and Applied Chemistry—PhD

Dentistry—PhD

Geography—PhD

Health Policy, Management and Evaluation—PhD

Law—SJD

Management—PhD

Medical Science—PhD

Nursing Science—PhD

Pharmaceutical Sciences—PhD

Planning—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. Upon successful completion of the doctoral degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Global Health" on their transcript and parchment.

Contact and Address

Web: www.dlsph.utoronto.ca/degree-information/collaborative-doctoral-program-global-health

Email: cdpgh.dlsph@utoronto.ca

Collaborative Doctoral Program in Global Health
c/o Dalla Lana School of Public Health Sciences
University of Toronto
Health Sciences Building
6th floor, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Programs

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.

Amendment to program requirements made on August 10, 2015:

- Students must successfully complete:
 - The global health research seminar series CHL 5701H (0.5 full-course equivalent [FCE]) over two academic sessions. Students must attend all seminars offered during the two sessions.
 - One of the following courses:
 - 0.5 FCE: CHL 5702H, CHL 5704H, HAD 5768H, NUR 1038H, or NUR 1083H (0.5 FCE) or
 - 1.0 FCE: JCR 1000Y.
 - One elective (0.5 FCE) from outside of the home department, selected in consultation with the Director.
 - 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 Courses

CHL 5701H	Doctoral Seminar, Collaborative Program in Global Health
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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)
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Elective Courses

Anthropology

ANT 6003H	Critical Issues in Ethnography I
ANT 6004H	Critical Issues in Ethnography II
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.

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 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 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

Collaborative Programs

Health Care, Technology, and Place

Lead Faculty

Medicine

Participating Degree Programs

Biomedical Engineering—PhD
Health Policy, Management and Evaluation—PhD
Mechanical and Industrial Engineering—PhD
Medical Science—PhD
Pharmaceutical Sciences—PhD
Public Health Sciences—PhD
Rehabilitation Science—PhD
Social Work—PhD

Overview

Effective September 2015, admissions to this collaborative program have closed.

The graduate programs listed above participate in the Collaborative Doctoral Program in Health Care, Technology, and Place (HCTP). The objectives of this collaborative program are to:

1. prepare doctoral students to understand, explain, and improve health outcomes associated with 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 innovative technologies, diverse settings, and complex work and personal practices of modern health in Canada; and
3. provide mentorship in interdisciplinary research and scholarship, including leadership skills, negotiation and collaboration, grant writing, and knowledge transfer. Ultimately, the goal is to facilitate research conducted by scientifically informed humanists and philosophically informed physical and social scientists.

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.

Upon successful completion of the PhD degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Health Care, Technology, and Place” on their transcript and parchment.

Contact and Address

Web: www.hctp.utoronto.ca
Email: hctp.program@utoronto.ca
Telephone: (416) 978-2067
Fax: (416) 978-7350

Collaborative Doctoral Program in Health Care,
Technology, and Place
University of Toronto
Suite 425, 155 College Street
Toronto, Ontario M5T 3M6
Canada

Programs

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 resumé or curriculum vitae (CV);
 - 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 full-course equivalent (FCE), selected from the list of core courses.
- Students must attend the monthly seminar series (SRD 4444H [CR/NCR]), 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.
- 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.

Course List

Core Courses

BME 1456H	Changing Health Care Technologies, People, and Places
JNH 5001H	Health Care Settings, Sites, and Human Well-Being
JNH 5002H	The Body, Health Care, Technology, and Place
NUR 1031H	Technology and Place in Contemporary Health Care Work

Collaborative Programs

Health Services and Policy Research

Lead Faculty

Medicine

Participating Degree Programs

Exercise Sciences—MSc, PhD

Health Policy, Management and Evaluation—MSc, PhD

Pharmaceutical Sciences—MSc, PhD

Public Health Sciences—PhD

Rehabilitation Science—MSc

Social Work—PhD

Overview

The Collaborative Program in Health Services and Policy Research began in 2001 as a consortium of six Ontario universities, called the Ontario Training Centre. It was established in a response to the need for increased numbers of health services researchers to address critical issues in effective and efficient health care delivery (which has been identified as a top priority by national research funding agencies). The Ontario Training Centre was part of a pan-Canadian initiative involving other provincial centres. After its first decade of operations, funding for the centre has concluded. However, the Collaborative Program in Health Services and Policy Research continues to attract graduate students from the University of Toronto from a variety of disciplines.

The overall goal of the collaborative program is to increase health research capacity in Ontario through an innovative training program that builds on existing strengths in university and decision-making environments.

Partnering with a number of health care organizations, the Collaborative Program in Health Services and Policy Research offers graduate training leading to a Diploma in Health Services and Policy Research.

Specific objectives of the program include:

- providing training in health services research for graduate students;
- enhancing the quality and breadth of transdisciplinary training in health services research; and
- including decision makers as active partners in teaching, program and curriculum planning, and the provision of field placements for students.

This competency-based program focuses on the following five areas:

1. understanding the Canadian health care system;

2. ability to carry out health services research;
3. understanding theories regarding how the health of populations is produced;
4. understanding theories of health and health services knowledge production; and
5. knowledge exchange and development of research partnerships.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Health Services and Policy Research" on their transcript and parchment.

Contact and Address

Web: <http://ihpme.utoronto.ca/academics/collaborative/>

Email: whit.berta@utoronto.ca

Telephone: (416) 946-5223

Fax: (416) 978-7350

Collaborative Graduate Program in Health Services and Policy Research
c/o Dr. Whitney Berta
Institute of Health Policy, Management and Evaluation
Faculty of Medicine
University of Toronto
Suite 428, 4th Floor, 55 College Street
Toronto, Ontario M5T 3M6
Canada

Programs

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.
- Master's students are admitted under the General Regulations of the School of Graduate Studies 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 applicant's reasons for becoming a health services or policy researcher.

Program Requirements

Students must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit.

- Students must complete a total of 1.5 full-course equivalents (FCEs) as follows:
 - HSR 1000H *Research and/or Policy Practicum*
 - HSR 1002H *Health Services Research Seminar* (CR/NCR)

Collaborative Programs

- 0.5 FCE from the elective course list
- 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.

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.
- Doctoral students are admitted under the General Regulations of the School of Graduate Studies and the specific criteria of the participating unit.
- Applicants are required to:
 - demonstrate academic excellence in completed courses (B+ average in graduate courses), scholarships and academic awards received;
 - demonstrate aptitude for health services and policy research (letter of recommendation from a previous professor or thesis supervisor)
 - commenting on the applicant'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 must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit.

- Students must complete a total of 1.5 full-course equivalents (FCEs) as follows:
 - HSR 1000H *Research and/or Policy Practicum*
 - HSR 1002H *Health Services Research Seminar* (CR/NCR)
 - 0.5 FCE from the elective course list
- 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.

Course List

Required

HSR 1000H	Research and/or Policy Practicum
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HSR 1002H	Health Services Research Seminar (CR/NCR)
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Electives

HAD 5011H	Canadian Health Care System: Organization and Policy
HAD 5021H	Advanced Health Policy Analysis
HAD 5727H	Knowledge Transfer for Health Services and Policy Research
HAD 5728H	Performance Measurement in Health Services Research
HAD 5774H	Canadian Health Policy in Comparative Perspective
HAD 5780H	Program Planning and Evaluation
HAD 7001H	Mixed Methods in Health Services Research
HSR 1001H	Qualitative Methods in Health Services Research
PHM 1124H	The Power and Politics of Global Pharmaceutical Policy

Collaborative Programs

Human Development

Lead Faculty

Medicine

Participating Degree Programs

Biomedical Engineering—PhD

Developmental Psychology and Education—PhD

Ecology and Evolutionary Biology—PhD

Immunology—PhD

Medical Biophysics—PhD

Medical Science—PhD

Music—PhD

Nutritional Sciences—PhD

Pharmacology—PhD

Physiology—PhD

Psychology—PhD

Public Health Sciences—PhD

Social Work—PhD

Supporting Units

Fraser Mustard Institute for Human Development (FMIHD)

Department of Physiology, Faculty of Medicine

Overview

The Collaborative Program in Human Development (CPHD) is a transdisciplinary program that explores issues surrounding early human development. The healthy development of our children is at the core of our societal values. Recent evidence shows that early experiences strongly influence the biological pathways surrounding health and the well-being of individuals throughout their lives. This phenomenon involves complex interactions between genes and environments; the CPHD provides students with the skills and resources necessary to start dissecting and untangling those interrelationships in animals and humans.

Keeping in mind the fundamental goal of improving the well-being of children, the program also nurtures translational skills in students with the ultimate goal of bridging the gap between basic research and public policy and practices. In summary, the CPHD aims both to facilitate research on the ways that early childhood experiences become embedded in our biology, and to foster translational skills in order to disseminate this research most effectively to educators, policy makers, etc. The successful achievement of both of these aims will be supervised by an eminent group of academics with expertise in all relevant areas.

Upon successful completion of the PhD degree requirements of the participating home department and the collaborative program, students receive the

notation "Completed Collaborative Program in Human Development" on their transcript and parchment.

Contact and Address

Web: www.oise.utoronto.ca/humandevlopment/index.html

Email: humandevlopment@utoronto.ca

Telephone: (416) 978-8325

Victoria de Luca

Fraser Mustard Institute for Human Development
Ontario Institute for Studies in Education, University of Toronto

252 Bloor Street West, 7th Floor

Toronto, ON M5S 1V6

Canada

Programs

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.
- Applicants must submit the following:
 - curriculum vitae (CV);
 - one- to two-page essay explaining the applicant's interest in the program, and how the proposed work is related to human development or areas that intersect with human development;
 - two letters of recommendation from faculty members commenting on the student's academic ability, potential as a researcher, and fit within the collaborative program topic area.

Program Requirements

Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative program. The collaborative program director and/or program committee is/are responsible for certifying the completion of the collaborative program requirements. The home graduate unit is solely responsible for the approval of the student's home degree program requirements.

Collaborative program students must:

- complete the required core course, HDV 1000H⁺ *Pluralistic Human Development* (0.5 full-course equivalent [FCE]);
- attend at least 75% of the seminars in the FMIHD seminar series in Year 1 of the program, and 50% of the seminars thereafter for the duration of the PhD (SRD 4444H, CR/NCR);
- attend an annual research day to present their work at least once during registration in the program;

- complete a thesis in the broad area of human development or an area that intersects with human development under the supervision of a core collaborative program faculty member.

Course List

Core Courses

HDV 1000H ⁺	Pluralistic Human Development
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SRD 4444H	Doctoral Seminar Series
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⁺ *Extended course. For academic reasons, coursework is extended into session following academic session in which course is offered.*

Collaborative Programs

Jewish Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Anthropology—MA, PhD

Classics—MA, PhD

Comparative Literature—MA, PhD

Drama, Theatre and Performance Studies—MA, PhD

English—MA, PhD

European and Russian Affairs—MA

Geography—PhD

Germanic Languages and Literatures—MA

German Literature, Culture and Theory—PhD

History—MA, PhD

History of Art—MA, PhD

Information Studies—PhD

Linguistics—PhD

Medieval Studies—MA, PhD

Museum Studies—MMSt

Music—MA, PhD

Music Performance—DMA

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 crossfertilization 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 master's and doctoral programs listed above. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Jewish Studies" on their transcript and parchment.

Contact and Address

Web: www.cjs.utoronto.ca

Email: cjs.director@utoronto.ca

Telephone: (416) 978-1624

Fax: (416) 946-7719

Collaborative Program in Jewish Studies
Anne Tanenbaum Centre for Jewish Studies

University of Toronto
170 St. George Street, Suite 218
Toronto, Ontario M5R 3M8
Canada

Programs

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 full-course equivalent [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 cosupervised 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
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Comparative Literature/Germanic Languages and Literatures

JGC 1750H#	Modernity and its Discontents
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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 1400H	Soviet and Kosher: Jewish Popular Culture in the Soviet Union, 1917–1991
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

Collaborative Programs

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

Collaborative Programs

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
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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
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
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Knowledge Media Design

Lead Faculty

Information

Participating Degree Programs

Architecture—MArch

Computer Science—MSc, PhD

Curriculum Studies and Teacher Development—MA, MEd, PhD

Drama, Theatre and Performance Studies—MA, PhD
Information—MI

Information Studies—PhD

Landscape Architecture—MLA

Language and Literacies Education—MA, MEd, PhD

Mechanical and Industrial Engineering—MAsc, MEng, PhD

Medical Science—MSc, PhD

Museum Studies—MMSt

Religion—MA, PhD

Urban Design—MUD

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. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Knowledge Media Design" on their transcript and parchment.

Contact and Address

Web: www.kmdi.utoronto.ca

Email: program@kmdi.utoronto.ca

Telephone: (416) 978-5634

Collaborative Program in Knowledge Media Design
Knowledge Media Design Institute
University of Toronto
Robarts Library, Rooms 1153 and 1155
130 St. George Street
Toronto, Ontario M5S 1A5
Canada

Mailing address:

Faculty of Information
Knowledge Media Design Institute
University of Toronto
140 St. George Street
Toronto, ON M5S 3G6
Canada

Programs

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. Or they may apply directly to KMDI.
- The application includes: a completed application form, a statement of research interest, a resumé, 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 collaborative program committee.
- Alternatively, students can apply to the collaborative program through an expression of interest as part of the application to their home unit.

Program Requirements

- Students must meet all the requirements of their home department.
- Students must successfully complete:
 - KMD 1001H and
 - 0.5 full-course equivalent (FCE), consisting of either KMD 1002H, a KMD 2001 to 2004 series course, or a recognized affiliate course listed on the KMDI website. Courses are subject to availability.
- Students must attend two KMDI Speaker Series Lectures. Attendance will be monitored and appear on the transcript as KMD 2100Y. This course is assigned as Credit/No Credit.
- Students must submit a portfolio that includes completed student research in knowledge media design. The collaborative program committee will

Collaborative Programs

- review all portfolios for their quality and contribution to the field.
- 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' 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 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. Or they may apply directly to KMDI.
- The application includes: a completed application form, a statement of research interest, a resumé, 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 collaborative program committee.
- Alternatively, students can apply to the collaborative program through an expression of interest as part of the application to their home unit.

Program Requirements

- Students must successfully complete:
 - 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 to 2004 series or a list of recognized affiliate courses.
- Students must submit a portfolio that includes completed student research in knowledge media design. The collaborative program committee will review all portfolios for their quality and contribution to the field.
- Students must attend four KMDI Speaker Series Lectures. Attendance will be monitored and appear on the transcript as KMD 2200Y. The course is assigned as Credit/No Credit.
- 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' portfolio will most often be connected with their dissertation proposal. Specific details about the portfolio requirements are outlined on the KMDI website.
- 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 tailored to meet the needs of each student.

Course List

For courses offered in a particular year, check the KMD program website.

Knowledge Media Design

Required

KMD 1001H	Theory and Methods in Knowledge Media Design
KMD 1002H	Applications in Knowledge Media (required for PhD students only; elective for master's students)
KMD 2100Y	Master's Seminar (CR/NCR)
KMD 2200Y	Doctoral Seminar (CR/NCR)

Electives

KMD 2001H	Human-Centred Design (exclusion: INF 2169H)
KMD 2002H	Technologies for Knowledge Media
KMD 2003H	Knowledge Media and Learning (exclusion: CTL 1926H)
KMD 2004H	Knowledge Media, Culture, and Society
KMD 4000H	Knowledge Media Design: Special Topics (prerequisite: KMD 1001H)

Participating Department Electives

Please consult the KMD program website for a full list of eligible electives that meet the KMD program requirements. 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.

Musculoskeletal Sciences

Lead Faculty

Medicine

Participating Degree Programs

Biomedical Engineering—MAsc, PhD

Dentistry—MSc, PhD

Exercise Sciences—MSc, PhD

Health Policy, Management and Evaluation—MSc, PhD

Laboratory Medicine and Pathobiology—MSc, PhD

Medical Science—MSc, PhD

Rehabilitation Science—MSc, PhD

Overview

There is an increasing burden of illness related to musculoskeletal disorders. The Collaborative Program in Musculoskeletal Sciences (CPMS) focuses on educating and training graduate students to carry out musculoskeletal research and helping them see how their work fits into the larger community of musculoskeletal research that ranges from bench to bedside to society.

The program nurtures leaders in the field of musculoskeletal sciences who possess the knowledge and capability to promote transformational change.

The University of Toronto has a cohort of stellar faculty with expertise in all related medical research disciplines, constituting one of the largest musculoskeletal research communities in the world. Research areas include immunology, cell biology, molecular medicine and genomics, muscle physiology, imaging, pathology, bioengineering, and related clinical areas such as orthopaedics, rheumatology, dentistry, kinesiology, rehabilitation, injury prevention, and pain management.

Advances in these areas are converging to allow major advances in translating research to musculoskeletal care and health. This collaborative program builds on this community to provide a unique education and training program.

This program interests graduate students wishing to enhance their interdisciplinary knowledge and advance their careers. Participation in this program enhances professional contacts throughout the international musculoskeletal research community. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Musculoskeletal Sciences" on their transcript and parchment.

Contact and Address

Web: <http://tmc.utoronto.ca/>

Email: msk.admin@utoronto.ca
Telephone: (416) 586-4800 ext. 7563
Fax: (416) 978-5993

Collaborative Program in Musculoskeletal Sciences

Mailing address:

60 Murray Street, Box 42
Toronto, Ontario M5T 3L9
Canada

Office address:

University of Toronto
Suite 6-1016, 25 Orde Street
Toronto, Ontario M5T 3H7
Canada

Programs

Master's Level

Admission Requirements

- Applicants who wish to enrol in the CPMS must apply to and be admitted to both a graduate degree program in one of the participating units and to the collaborative program. In addition to the application requirements of the home degree program, the CPMS requires:
 - a curriculum vitae (CV)
 - a one-page letter explaining how the applicant's program of study and specific research interests relate to musculoskeletal science
 - a letter of recommendation from a faculty member (if possible the thesis supervisor in a thesis-based graduate program), commenting on the applicant's academic abilities and likelihood for research success.

Program Requirements

- Meet all requirements of the home degree program and collaborative program.
- Complete the required core course: MSC 3001H *Foundations In Musculoskeletal Science*.
- Attend and participate in 12 seminars of the SRM 3335H *Master's Seminar Series* (Credit/No Credit).
- Complete a thesis or major project or placement in the area of musculoskeletal sciences under the supervision of collaborative program core faculty member.

Doctoral Level

Students enrolled in the CPMS at the master's level who transfer to the doctoral level will have the course MSC 3001H *Foundations in Musculoskeletal Science* counted toward the completion of the doctoral collaborative program requirements.

Admission Requirements

- Applicants who wish to enrol in the CPMS must apply to and be admitted to both a graduate degree

Collaborative Programs

program in one of the collaborating units and to the collaborative program. In addition to the application requirements of the home degree program, the CPMS requires:

- a curriculum vitae (CV)
- a one-page letter explaining how the applicant's program of study and specific research interests relate to musculoskeletal science
- a letter of recommendation from a faculty member (usually the thesis supervisor in a thesis-based graduate program), commenting on the applicant's academic abilities and likelihood for research success at the doctoral level.

Program Requirements

- Meet all requirements of the home degree program and collaborative program.
- Complete the required core course: MSC 3001H *Foundations in Musculoskeletal Science*. Students who have completed MSC 3001H at the master's level and who transfer to a doctoral degree and the doctoral level of the collaborative program are not required to complete an additional core course.
- Attend and participate in 18 seminars of the SRD 4445H *Doctoral Seminar Series*. Students who transfer from a master's degree and master's collaborative program to a doctoral degree and the doctoral collaborative program will be required to attend 18 seminars in total; the total will include the number of seminars attended at both the master's and doctoral levels.
- Complete a thesis in the area of musculoskeletal sciences under the supervision of a collaborative program core faculty member.
- In the rare instance that a student who has completed the collaborative program at the master's level wishes to also enrol in the collaborative program at the doctoral level, the student will not be required to repeat the core course, MSC 3001H. However, the student will be required to attend and participate in 18 seminars of the SRD 4445H *Doctoral Seminar Series* and complete the doctoral thesis in the area under the supervision of a core faculty member.

Course List

MSC 3001H	Foundations in Musculoskeletal Science
SRM 3335H	Master's Seminar Series
SRD 4445H	Doctoral Seminar Series

Neuroscience

Lead Faculty

Medicine

Participating Degree Programs

Biochemistry—MSc, PhD

Biomedical Engineering—MAsc, PhD

Cell and Systems Biology—MSc, PhD

Computer Science—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

Music—MA, PhD

Pharmaceutical Sciences—Pharmacology—MSc, PhD

Physiology—MSc, PhD

Psychology—MA, PhD

Rehabilitation Science—MSc, PhD

Overview

The graduate programs listed above participate in the Collaborative Program in Neuroscience (CPIN).

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 degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Neuroscience” on their transcript and parchment.

Students interested in joining the program should go to the Neuroscience website and complete the application form. Students should register within one month of initial registration in their participating degree unit. The Neuroscience website provides areas of research for all faculty in the collaborative program, their graduate unit affiliations and contact information, as well as additional information on neuroscience courses.

Students in the program receive the Collaborative Program in Neuroscience newsletter and notification about neuroscience lectures held on campus. The program runs a Distinguished Lectureship Series of talks by eminent neuroscientists and an annual research day; students are required to attend and present at this event.

Contact and Address

Web: www.neuroscience.utoronto.ca

Email: p.neuroscience@utoronto.ca

Telephone: (416) 978-8637

Collaborative Program in Neuroscience
University of Toronto
Room 3306, 1 King's College Circle
Toronto, ON M5S 1A8
Canada

Programs

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 core faculty member of the Collaborative Program in Neuroscience (CPIN).
- All master's-level students must complete at least 0.5 full-course equivalents (FCEs) chosen from the list of courses approved by the Collaborative Program in Neuroscience, as listed below.
- The student must attend the Annual CPIN Research Day at least once.
- The student must complete NEU 1000H *Neuroscience Distinguished Lecture Series (Master's)* by attending at least 70% (or a minimum of seven) of the lectures in the CPIN Distinguished Lectureship Series, including the Raymond and Beverly Sackler Distinguished Visiting Neuroscientist Lecture, for a minimum of one year during his/her studies. As part of the seminar series, the student must present his/her work at least once at the Research Day.

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 core faculty member of the Collaborative Program in Neuroscience (CPIN).
- All PhD students must complete at least 1.0 full-course equivalent (FCE) course, such as JNR 1444Y *Fundamentals of Neuroscience: Cellular and Molecular*, or JNS 1000Y *Fundamentals of Neuroscience: Systems and Behaviour*, or one of several additional courses in cognitive psychology or imaging, or neuroscience-related course to be

Collaborative Programs

- determined by the CPIN Program Committee and posted on the CPIN website in July of each year.
- The student must attend the Annual CPIN Research Day at least twice.
 - The student must complete NEU 2000H *Neuroscience Distinguished Lecture Series (Doctoral)* by attending at least 70% (or a minimum of seven) of the lectures in the CPIN Distinguished Lectureship Series, including the Raymond and Beverly Sackler Distinguished Visiting Neuroscientist Lecture, per year for a minimum of three years during his/her studies. As part of the seminar series, the student must present his/her work at least twice at the Research Day.
 - MSc or MA students who have completed the CPIN and who wish to continue on to complete at the doctoral level must register in NEU 2000H *Neuroscience Distinguished Lecture Series (Doctoral)* and fulfil the doctoral program requirements.

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 1238H	Special Topics in Human Development and Applied Psychology
HDP 3286H	Developmental Neurobiology
JEB 1444H	Neural Engineering
JEB 1451H	Neural Bioelectricity
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 1081H	Studies in Schizophrenia
MSC 1085H	Molecular Approaches to Mental Health and Addictions
MSC 1086H	Integrative Perspectives in Consciousness and Self-Awareness
MSC 1087H	Neuroimaging Methods Using Magnetic Resonance Imaging
MSC 1088H	Brain Positron Emission Tomography

MSC 6000H	Special Topics in Anatomy (requires prior permission of the Neuroscience Program Director)
NEU 1000H ⁰	Neuroscience Distinguished Lecture Series (Master's) (Credit/No Credit)
NEU 2000H ⁰	Neuroscience Distinguished Lecture Series (Doctoral) (Credit/No Credit)
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 1050H	Advanced Topics: The Hippocampus from Cell to Behaviour
PSL 1053H	Advanced Topics: Critical Assessment of Ion Channel Function
PSL 1068H	Advanced Topics: Molecular Basis of Behaviour
PSL 1071H	Advanced Topics: Computational Neuroscience
PSL 1075H	Biology In Time
PSL 1441H	Systems Level Neuroplasticity
PSL 1445H	Mechanistic Molecular and Cellular Neuroscience
PSL 1446H	Molecular and Cellular Aspects of Neural Disorders
PSL 1452H	Fundamentals of Ion Channel Function
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 5120H	Advanced Topics in Animal Behaviour and Motivation I
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 5310H	Advanced Topics in Development I
PSY 5311H	Advanced Topics in Developmental Neuroscience II
REH 1510H	Disordered Restorative Motor Control
REH 5100H	Introduction to Cognitive Rehabilitation Neuroscience I: Basic Science to Clinical Applications
REH 5102H	Cognitive Rehabilitation Neuroscience II

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

Other Courses

Courses not specifically in neuroscience which do not fulfil 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
PSY 5102H	Motivational Processes
SLP 1522Y	Speech Physiology and Acoustics
SLP 1533Y	Aphasia
SLP 1534Y	Motor Speech Disorders
SLP 3001H	Theoretical Foundations of Communication Sciences

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

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 successful completion of the master's degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Optics" on their transcript and parchment.

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

Programs

Master's Level

Admission Requirements

- Admission to an 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

Physics

Public Health Policy

Lead Faculty

Medicine

Participating Degree Programs

Exercise Sciences—MSc, PhD

Health Administration—MHSc

Health Policy, Management and Evaluation—MSc, PhD

Nutritional Sciences—MSc, PhD

Public Health Sciences—MPH, MSc, PhD

Public Policy—MPP

Supporting Units

Dalla Lana School of Public Health

Overview

The Collaborative Program in Public Health Policy provides students with exemplary training in public health policy, which fosters synergies and crossdisciplinary learning. It gives students the capacity to engage in current events and contribute to the development, refinement, and evaluation of policies to address society's pressing and emerging public health priorities.

The collaborative program is cross-disciplinary, bringing together a broad range of disciplines, substantive foci, and theoretical and methodological underpinnings, to synergistically build an engaged community of practice of students and faculty focused on public health policy. It contributes to the creation of the next generation of public health policy research leaders and creative agents for change, able to address current health issues and challenges.

Through the direction of the stellar team of academics and policy-makers associated with the collaborative program, students are provided with real-world skills to address the complex and demanding task of public health policy-making (including insight into a wide array of legislative and regulatory interventions, administrative practices, financing and funding decisions, and various forms of soft law, such as guidelines and informal processes) which operate at the international, federal, provincial, and municipal levels in ways that are both cross-jurisdictional and cross-sectoral.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Public Health Policy" on their transcript and parchment.

Contact and Address

Web: www.publichealthpolicy.utoronto.ca/collaborativeprogram.html

Email: publichealthpolicy@utoronto.ca

Telephone: (416) 978-6512

Fax: (416) 946-0340

Collaborative Program in Public Health Policy
University of Toronto
Suite 534, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Programs

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.
- Complete the online application form available on the website.
- Curriculum vitae (CV) (maximum length: five pages).
- Two-page free-form essay outlining:
 1. interest in public health policy
 2. aspirations
 3. learning goals
 4. career plans
 5. specific research plans (if in a research program of study)
 6. experience relevant to public health policy
- Letters from two references. The letters of reference should describe the student's academic ability and career aspirations and comment on the student's potential benefit from the collaborative program.

Program Requirements

- Individual student programs of study must meet the requirements of both the home department and the collaborative program. To fulfil the requirements of the collaborative program, students must complete the following:
 - Undertake the major paper, thesis, or practicum placement with a public health policy focus under the supervision of one of the collaborative program's core faculty members.
 - Complete 1.0 full-course equivalent (FCE) in public health policy from the following list: CHL 5300H *Public Health Policy*, CHL 5308H *Tools and Approaches for Public Health Policy Analysis and Evaluation*, HAD 5011H *Canada's Health Care System*, or PPG 1001H *The Policy Process*.
 - Complete the *Master's Seminar Series* course, SRM 3333H.
- All students enrolled in the collaborative program must complete the requirements of the collaborative

Collaborative Programs

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 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.
- Complete the online application form available on the website.
- Curriculum vitae (CV) (maximum length: five pages).
- Two-page free-form essay outlining:
 1. interest in public health policy
 2. aspirations
 3. learning goals
 4. career plans
 5. specific research plans
 6. experience relevant to public health policy
- Letters from two references. One letter should come from the prospective supervisor and should describe availability of resources necessary to carry out research, including the type of mentoring the supervisor will be able to provide, comments on academic progress, and the student's potential benefit from the collaborative program.

Program Requirements

- Individual student programs of study must meet the requirements of both the home department and the collaborative program.
- To fulfil the requirements of the collaborative program, students must complete the following:
 - Undertake thesis research with a public health policy focus under the supervision of one of the collaborative program's core faculty members.
 - Complete 1.0 full-course equivalent (FCE) in public health policy from the following list: CHL 5300H *Public Health Policy*, CHL 5308H *Tools and Approaches for Public Health Policy Analysis and Evaluation*, HAD 5011H *Canada's Health Care System*, or PPG 1001H *The Policy Process*. Students who have completed two of the four courses listed above may be considered for a course reduction of up to 1.0 FCE in the PhD program.
 - Completion of the graduate seminar series course CHL 5309H.

All students enrolled in the collaborative program must complete the requirements of the collaborative program, in addition to those requirements for the degree program in their home graduate unit.

CHL 5308H	Tools and Approaches for Public Health Policy Analysis and Evaluation
CHL 5309H	Advanced Analysis of Topical Issues in Public Health Policy Seminar Series (doctoral level)
HAD 5011H	Canada's Health Care System
PPG 1001H	The Policy Process
SRM 3333H	Public Health Policy Seminar Series (master's level)

Course List

CHL 5300H	Public Health Policy
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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—MSc, 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, anaesthesia, 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 degree requirements of the participating home department and the collaborative program, students receive the notation "Completed

Collaborative Program in Resuscitation Sciences" on their transcript and parchment.

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

Programs

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 resumé or curriculum vitae (CV)
 - 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
 - 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

Collaborative Programs

- present their research at least once at either the CPRS Resuscitation in Motion scientific meeting or in the Foundations MSC 4001H core course.

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 resumé or curriculum vitae (CV)
 - 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 SRD 4444H *Resuscitation Sciences Graduate Seminar Series* over two consecutive years
 - present their research at least twice at either the CPRS Resuscitation in Motion scientific meeting or in the Foundations MSC 4001H core course.

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)

Course List

MSC 4001H	Foundations in Resuscitation Science Research
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Sexual Diversity Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Anthropology—MA, MSc, PhD
Cinema Studies—MA
Classics—MA, PhD
Comparative Literature—MA, PhD
Counselling and Clinical Psychology—MA, PhD
Counselling Psychology—MEd, EdD
Criminology—MA, PhD
Curriculum Studies and Teacher Development—MA, MEd, PhD
Drama, Theatre and Performance Studies—MA, PhD
East Asian Studies—MA, PhD
Educational Leadership and Policy—MA, MEd, EdD, PhD
English—MA, PhD
Exercise Sciences—MSc, PhD
French Language and Literature—MA, PhD
Geography—MA, PhD
Higher Education—MA, MEd, EdD, 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
Law—LLM, MSL, SJD
Linguistics—MA, PhD
Medieval Studies—MA, PhD
Museum Studies—MMSt
Music—MA, PhD
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 Justice Education—MA, MEd, EdD, PhD
Social Work—MSW, PhD
Sociology—MA, PhD
Visual Studies—MVS
Women and Gender Studies—MA, PhD

Supporting Unit

Mark S. Bonham Centre for Sexual Diversity Studies

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. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation “Completed Collaborative Program in Sexual Diversity Studies” on their transcript and parchment.

Contact and Address

Web: www.uc.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

Programs

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 towards the 0.5 FCE beyond the core course if a significant portion of the

Collaborative Programs

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 Collaborative Program Director.

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 Collaborative Program Director.
- 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 1002H	Comparative Disciplinary Approaches: A Research Seminar (prerequisite: SDS 1000H or permission of the instructor)
SDS 1999H	Special Topics in Sexual Diversity Studies

South Asian Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Anthropology—MA, MSc, PhD
Comparative Literature—MA, PhD
Drama, Theatre and Performance Studies—MA, PhD
East Asian Studies—MA, PhD
English—MA, PhD
Geography—MA, PhD
History—MA, PhD
Music—MA, PhD
Political Science—PhD
Religion—MA, PhD
Social Justice Education—MA, MEd, EdD, PhD
Women and Gender Studies—MA, PhD

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 and doctoral students wishing to be admitted to the collaborative program must apply to one of the participating graduate programs.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in South Asian Studies" on their transcript and parchment.

Contact and Address

Web: www.utoronto.ca/csas
 Email: southasian.grad@utoronto.ca
 Telephone: (416) 946-8832
 Fax: (416) 946-8838

Collaborative Program in South Asian Studies

Centre for South Asian Studies
 Munk School of Global Affairs
 University of Toronto
 Room 228N, 1 Devonshire Place
 Toronto, Ontario M5S 3K7
 Canada

Programs

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 a minimum of two lectures per session from the lecture series organized by the Centre for South Asian Studies during the academic year in which the student takes the core course (September to May).
- 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. Admission will be subject to the approval of the graduate unit concerned and the program committee of the collaborative program.

Collaborative Programs

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 a minimum of two lectures per session from the lecture series organized by the Centre for South Asian Studies (CSAS) for a total of two years, including the academic year in which the student takes the core course (September to May).
- Submission of two short articles responding to CSAS events (one per year during the two years of attendance at the CSAS lecture series), to be submitted to the program administrator for review by the program director and potentially shared online.
- 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

Women and Gender Studies

Lead Faculty

Arts and Science

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Anthropology—MA, MSc, PhD

Cinema Studies—MA

Classics—MA, PhD

Comparative Literature—MA, PhD

Counselling and Clinical Psychology—MA, PhD

Counselling Psychology—MEd, EdD

Criminology—MA, PhD

Curriculum Studies and Teacher Development—MA, MEd, PhD

Drama, Theatre and Performance Studies—MA, PhD

East Asian Studies—MA, PhD

Educational Leadership and Policy—MA, MEd, EdD, PhD

English—MA, PhD

Exercise Sciences—MSc, PhD

French Language and Literature—MA, PhD

Geography—MA, MSc, PhD

Germanic Languages and Literatures—MA

German Literature, Culture and Theory—PhD

Health Administration—MHSc

Health Policy, Management and Evaluation—MSc, PhD

Higher Education—MA, MEd, EdD, PhD

History—MA, PhD

Information—Ml

Information Studies—PhD

Language and Literacies Education—MA, MEd, PhD

Law—LLM, SJD

Medieval Studies—MA, PhD

Near and Middle Eastern Civilizations—MA, PhD

Philosophy—MA, PhD

Planning—MScPI, PhD

Political Science—MA, PhD

Public Health Sciences—MPH, PhD

Religion—MA, PhD

Social Justice Education—MA, MEd, EdD, PhD

Social Work—MSW, PhD

Sociology—MA, 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 an MA or PhD degree in another discipline. The program offers a rich interdisciplinary environment in

which to grapple with how gender and sexuality are 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. Core faculty members bring 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.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Women and Gender Studies" on their transcript and parchment.

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

Programs

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 fulfil 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 the applicant's program of study and specific

Collaborative Programs

research interests relate to women and gender studies at the master's level.

- Two letters of reference outlining the applicant's 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 or approved by the Graduate Coordinator of the collaborative program.

Non-thesis Master's

- A required 0.5 full-course equivalent (FCE) (WGS 5000H).
- 0.5 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 (WGS 5000H).
- 0.5 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
- 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 WGS 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 fulfil 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 the applicant's program of study and specific research interests relate to women and gender Studies at the doctoral level.
- Two letters of reference outlining the applicant's 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 5000H or WGS 5001H.
- Any other 0.5 FCE course in women and gender studies.
- 1.0 FCE of cross-listed or approved courses 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 cross-listed or core graduate faculty member with WGS will be a member of the thesis or supervisory committee of students in the program.

Course List

Core Courses

WGS 5000H	Feminist Theories, Histories, Movements I
WGS 5001H	Feminist Theories, Histories, Movements II

Elective Courses

For courses offered by WGS and cross-listed by the participating units offered in a particular year, check the collaborative program website.

Women's Health

Lead Faculty

Public Health

Participating Degree Programs

Anthropology—MA, MSc, PhD
Dentistry—MSc, PhD
English—MA, PhD
Exercise Sciences—MSc, PhD
Health Policy, Management and Evaluation—MSc, PhD
Immunology—MSc, PhD
Information—MI
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 and Gender Studies—MA, PhD

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; and
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. Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Women's Health" on their transcript and parchment.

Contact and Address

Web: www.womensresearch.ca/learning-centre/graduate-programs/collaborative-graduate-program

Email: CPWH@womensresearch.ca
 Telephone: (416) 351-3732 ext. 2331
 Fax: (416) 351-3746

Collaborative Graduate Program in Women's Health
 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

Programs

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 a curriculum vitae (CV), 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 sessions in the 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

Collaborative Programs

- photocopies of application materials submitted to their home unit including a curriculum vitae (CV), 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 sessions in the 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

Workplace Learning and Social Change

Lead Faculty

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

Adult Education and Community Development—MA, MEd, PhD

Industrial Relations and Human Resources—MIRHR, PhD

Rehabilitation Science—MSc, PhD

Social Justice Education—MA, MEd, PhD, EdD

Women and Gender Studies—MA

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; and
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 participating programs who are interested in participating in the collaborative program must apply to and be accepted by both the departmental and the collaborative program. For admission, applicants should submit a statement of interest to the Director.

Upon successful completion of the degree requirements of the participating home department and the collaborative program, students receive the notation "Completed Collaborative Program in Workplace Learning and Social Change" on their transcript and parchment.

Contact and Address

Web: www.oise.utoronto.ca/lhae/Programs/Collaborative_Programs/Workplace_Learning_and_Change.html

Collaborative Program in Workplace Learning and Social Change
The Ontario Institute for Studies in Education

University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Programs

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

- Individual student programs of study must meet the requirements of both the home department and the collaborative program. Normally, the selection of courses to satisfy the collaborative program requirements will not extend the program length.
- Course requirements are as follows:
 - 0.5 core full-course equivalent (FCE) (WPL 1131H *Introduction to Workplace Learning and Social Change*)
 - 0.5 elective full-course equivalent (FCE) in the area of workplace learning and social change
- In addition, students in a thesis-based MA program 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:
 - 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
 - indication of their preference of supervisor, if any.

Collaborative Programs

Program Requirements

Doctor of Education

Offered to students in the Social Justice Education program only.

- Individual student programs of study must meet the requirements of both the home department and the collaborative program. Normally, the selection of courses to satisfy the collaborative program requirements will not extend the program length.
- Course requirements are as follows:
 - 0.5 core full-course equivalent (FCE) (WPL 3931H *Advanced Studies in Workplace Learning and Social Change*)
 - 0.5 elective FCE in the area of workplace learning and social change
- 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

- Individual student programs of study must meet the requirements of both the home department and the collaborative program. Normally, the selection of courses to satisfy the collaborative program requirements will not extend the program length.
- Course requirements are as follows:
 - 0.5 core full-course equivalent (FCE) (WPL 3931H *Advanced Studies in Workplace Learning and Social Change*)
 - 0.5 elective FCE in the area of workplace learning and social change
- 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

Not all elective courses are offered each year. Refer to the course schedule for current course offerings.

Master's-Level Core Course

WPL 1131H	Introduction to Workplace Learning and Social Change
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Master's-Level Electives

The list of electives is subject to change.

IRE 1362H	Organizational Behaviour
IRE 1611H	Sociology of Industrial Relations
IRE 1615H	Labour and Globalization

IRE 1620H	Labour Relations Problems in Historical Perspective
LHA 1113H	Gender and Race at Work
LHA 1117H	Consulting Skills for Adult Educators
LHA 1119H	Creating a Learning Organization
LHA 1131H	Special Topics in Adult Education (Master's)
LHA 1141H	Organizations and the Adult Educator: Historical and Theoretical Perspectives on Organization Development
LHA 1145H	Participatory Research in the Community and the Workplace
LHA 1148H	An Introduction to Workplace, Organizational, and Economic Democracy
LHA 1150H	Critical Perspectives on Organization Theory, Development, and Practice
LHA 1156H	Power and Difference in the Workplace
LHA 1182H	Non Profits, Co-operatives, and the Social Economy
LHA 1185H	Leadership in Organizations: Changing Perspectives
LHA 1186H	Perspectives on Organizational Change
LHA 1195H	Technology@Work: The Internet in Workplace Learning and Change
SJE 2942H	Education and Work
SJE 2999H	Special Topics in Sociological Research in Education
WGS 486 / WGS 1020H	Special Topics in Feminist Studies
WPL 2944H	Sociology of Learning and Social Movements

Doctoral-Level Core Course

WPL 3931H	Advanced Studies in Workplace Learning and Social Change
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Doctoral-Level Electives

The 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:

LHA 3131H	Special Topics in Adult Education
LHA 3183H	Mapping Social and Organizational Relations in Education
WPL 2944H	Sociology of Learning and Social Movements

sgs.utoronto.ca

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UNIVERSITY OF TORONTO
SCHOOL OF GRADUATE STUDIES