



Important note: Ontario's response to the COVID-19 pandemic continues to evolve. Changes will likely occur as the province and its municipalities adjust to new data about the virus. In these circumstances, please be advised that the manner of delivery of courses, co-curricular opportunities, programs and services is subject to change, in accordance with university policies. The University thanks its students, faculty and staff for their flexibility during these challenging times as we work together to maintain the standards of excellence that are the hallmark of the University.

CALENDAR 2020-2021



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 <https://sgs.calendar.utoronto.ca/amendments>.

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

Composition by
School of Graduate Studies
University of Toronto

Published by
School of Graduate Studies
University of Toronto
September 2020

Front cover photo by Jason Krygier-Baum.
Back cover photo by Cesar Mejia.

University of Toronto

School of Graduate Studies 2020-2021 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

<https://sgs.calendar.utoronto.ca>

Student Services at SGS

Telephone: (416) 978-6614

Email: graduate.information@utoronto.ca

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

Table of Contents

Graduate Studies at the University of Toronto . 8

Mission Statement 8

Dean's Welcome..... 9

Deans of the School of Graduate Studies9

About This Calendar 10

Effective Academic Period.....10

Available Calendar Formats10

Sections.....10

Important Notices 11

Changes in Programs of Study and/or Courses.....11

Regulations and Policies11

Enrolment Limitations11

Copyright in Instructional Settings.....11

Person ID (Student Number).....11

Notice of Collection of Personal Information11

Fees and Other Charges12

2020-2021 Sessional Dates 13

2020 Fall Session.....13

2021 Winter Session13

2021 Summer Session14

Footnotes.....15

Programs by SGS Division 16

Division 1: Humanities.....16

Division 2: Social Sciences.....16

Division 3: Physical Sciences.....16

Division 4: Life Sciences17

Graduate Programs at a Glance..... 18

Degree Programs18

Combined Degree Programs.....21

Dual Degree Programs.....26

Collaborative Specializations.....26

Diploma Programs.....34

General Regulations 35

1 Organization of the School of Graduate Studies35

2 Categories of Students36

3 Application for Admission to a Degree Program.....37

4 Admission Regulations and Procedures.....38

5 Structure of Academic Programs.....40

6 Registration and Enrolment.....41

7 Good Academic Standing and Satisfactory Academic Progress, Time Limits, Supervision, and Candidacy.....48

8 Thesis and Graduate Student Supervision.....50

9 Graduation.....53

10 Academic Appeals Policy54

11 Policies and Guidelines55

Degree Regulations 59

12 Doctoral Degrees59

13 Master's Degrees62

Fee Regulations 66

14.1 Schedule of Fees66

14.2 Fees and Registration66

14.3 Academic Fees Structure66

14.4 Minimum Degree Fee66

14.5 Full-Time Student Fee.....67

14.6 Dual Registrations67

14.7 Full-Time Students Commencing a Degree Program in January.....67

14.8 Summer Students.....67

14.9 Part-Time Degree Students.....67

14.10 Flexible-Time PhD Degree Students.....67

14.11 Special Students67

14.12 International Students67

14.13 Incidental Fees67

14.14 Minimum Required Payment.....67

14.15 Service Charges.....68

14.16 Late Registration68

14.17 Fees for Graduating Master's Students.....68

14.18 Fees for Final-Year Doctoral Students68

14.19 Fees for Students on Extension68

14.20 Reinstatement Fees68

14.21 Outstanding Fees and Charges68

14.22 Receipts for Income Tax68

14.23 Transcripts.....68

Financial Support..... 70

15.1 Graduate Funding70

15.2 Admission Awards70

15.3 Graduate Awards70

15.4 Awards for International Students70

15.5 Government Student Assistance Program and Financial Aid70

15.6 Teaching and Research Assistantships70

15.7 SGS Financial Aid and Advising Programs70

Contact71

Graduate Programs	72	History	325
Degree and Diploma Programs by Graduate Unit	73	History and Philosophy of Science and Technology	332
Aerospace Studies.....	74	Immunology.....	337
Anthropology.....	83	Industrial Relations and Human Resources..	345
Applied Psychology and Human Development	89	Information	351
Architecture, Landscape, and Design	113	Italian Studies.....	361
Art History.....	125	Kinesiology.....	364
Astronomy and Astrophysics	130	Laboratory Medicine and Pathobiology	369
Biochemistry	134	Law	378
Biomedical Engineering.....	138	Leadership, Higher and Adult Education.....	394
Cell and Systems Biology.....	147	Linguistics	410
Chemical Engineering and Applied Chemistry	151	Management & Innovation.....	414
Chemistry.....	161	Management, Rotman School of Management	426
Cinema Studies	168	Management, Tri-campus	441
Civil and Mineral Engineering	171	Management, University of Toronto Scarborough.....	446
Classics.....	182	Materials Science and Engineering	448
Comparative Literature	188	Mathematical Finance.....	457
Computer Science	193	Mathematics	459
Criminology and Sociolegal Studies	200	Mechanical and Industrial Engineering.....	465
Curriculum, Teaching and Learning.....	204	Medical Biophysics.....	475
Dentistry.....	220	Medical Science	480
Drama, Theatre and Performance Studies.....	226	Medieval Studies.....	491
Earth Sciences	230	Molecular Genetics	499
East Asian Studies.....	234	Music	505
Ecology and Evolutionary Biology	239	Near and Middle Eastern Civilizations	530
Economics	243	Nursing Science.....	536
Electrical and Computer Engineering	248	Nutritional Sciences	543
English	258	Occupational Science and Occupational Therapy	547
European, Russian, and Eurasian Studies	266	Pharmaceutical Sciences.....	550
Financial Economics	270	Pharmacology and Toxicology	557
Forestry.....	272	Philosophy.....	562
French Language and Literature.....	278	Physical and Environmental Sciences.....	569
Geography and Planning	287	Physical Therapy	576
Germanic Languages and Literatures.....	299	Physics.....	579
Global Affairs and Public Policy	304	Physiology	583
Health Policy, Management and Evaluation ..	311	Political Science.....	589

Psychological Clinical Science	597	UTSC, Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	710
Psychology	605	UTM, Chemistry (Major), Honours Bachelor of Science / Master of Teaching	712
Public Health Sciences	609	UTSC, Chemistry (Major), Honours Bachelor of Science / Master of Teaching	714
Rehabilitation Sciences	625	UTSC, Chemistry (Major Co-op), Honours Bachelor of Science / Master of Teaching	716
Religion	635	UTM, Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information	718
Slavic Languages and Literatures	640	UTM, Comparative Physiology (Specialist), Honours Bachelor of Arts / Master of Teaching	720
Social Justice Education	645	UTSC, Conservation and Biodiversity (Specialist), Honours Bachelor of Science / Master of Environmental Science	722
Social Work.....	653	UTSC, Conservation and Biodiversity (Specialist), Honours Bachelor of Science / Master of Teaching	724
Sociology	666	UTSC, Conservation and Biodiversity (Major), Honours Bachelor of Science / Master of Teaching.....	726
Spanish	671	UTM, Digital Enterprise Management (Specialist), Honours Bachelor of Arts / Master of Information	728
Speech-Language Pathology	675	UTM, Ecology and Evolution (Specialist), Honours Bachelor of Arts / Master of Teaching	730
Statistical Sciences	677	STG, Engineering, Bachelor of Applied Science / Master of Business Administration	732
Theoretical Astrophysics.....	683	UTSC, English (Specialist), Honours Bachelor of Arts / Master of Teaching	734
Women and Gender Studies.....	684	UTSC, English (Specialist Co-op), Honours Bachelor of Arts / Master of Teaching.....	736
Combined Degree Programs.....	685	STG, English (Major), Honours Bachelor of Arts / Master of Teaching	738
UTM, Astronomical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching	686	UTSC, English (Major), Honours Bachelor of Arts / Master of Teaching.....	740
UTSC, Biochemistry (Major), Honours Bachelor of Science / Master of Teaching.....	688	UTSC, English (Major Co-op), Honours Bachelor of Arts / Master of Teaching	742
UTSC, Biochemistry (Major Co-op), Honours Bachelor of Science / Master of Teaching	690	UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	744
UTM, Biological Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching	692	UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Chemical	
UTSC, Biological Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching	694		
UTSC, Biological Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	696		
UTM, Biology (Specialist), Honours Bachelor of Science / Master of Teaching	698		
UTM, Biology (Major), Honours Bachelor of Science / Master of Teaching	700		
UTSC, Biology (Major), Honours Bachelor of Science / Master of Teaching	702		
UTM, Biology for Health Sciences (Major), Honours Bachelor of Science / Master of Teaching	704		
UTM, Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching.....	706		
UTSC, Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching	708		

Engineering and Applied Chemistry, Master of Engineering	746
UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	748
UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	750
UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Master of Environmental Science	752
UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science	754
UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Master of Teaching	756
UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	758
UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	760
UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	762
UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	764
UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	766
UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Master of Environmental Science	768
UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science	770
UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching	772
UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	774
UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Chemical	

Engineering and Applied Chemistry, Master of Engineering	776
UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	778
UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	780
UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	782
UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Master of Environmental Science	784
UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science.....	786
UTM, Environmental Management (Specialist), Honours Bachelor of Arts / Sustainability Management, Master of Science	788
UTM, Environmental Management (Major), Honours Bachelor of Arts / Sustainability Management, Master of Science	791
UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	793
UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering	795
UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	797
UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering.....	799
UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Master of Environmental Science	801
UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science	803
UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Master of Teaching.....	805

UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	807	UTSC, Human Geography (Specialist), Honours Bachelor of Arts / Master of Teaching.....	849
UTM, Environmental Science (Specialist), Honours Bachelor of Arts / Sustainability Management, Master of Science	809	UTSC, Human Geography (Major), Honours Bachelor of Arts / Master of Teaching.....	851
UTM, Environmental Science (Major), Honours Bachelor of Arts / Sustainability Management, Master of Science	812	STG, Master of Information / Master of Museum Studies	853
UTSC, Evolutionary Anthropology (Specialist), Honours Bachelor of Science / Master of Teaching	815	UTSC, Integrative Biology (Specialist), Honours Bachelor of Science / Master of Environmental Science	855
UTSC, Evolutionary Anthropology (Major), Honours Bachelor of Science / Master of Teaching	817	UTSC, Integrative Biology (Specialist), Honours Bachelor of Science / Master of Teaching	857
UTM, Exceptionality in Human Learning (Specialist), Honours Bachelor of Science / Child Study and Education, Master of Arts ...	819	UTM, Interactive Digital Media (Specialist), Honours Bachelor of Arts / Master of Information	859
UTM, Forensic Biology (Specialist), Honours Bachelor of Science / Master of Teaching	821	STG, Kinesiology, Bachelor of Kinesiology / Master of Teaching	861
UTM, Forensic Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching	823	UTM, Language Teaching and Learning: French (Major), Honours Bachelor of Arts / Master of Teaching.....	863
UTSC, French (Specialist), Honours Bachelor of Arts / Master of Teaching.....	825	UTM, Language Teaching and Learning: French and Italian (Specialist), Honours Bachelor of Arts / Master of Teaching.....	865
UTSC, French (Specialist Co-op), Honours Bachelor of Arts / Master of Teaching.....	827	STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Doctor of Philosophy	867
UTSC, French (Major), Honours Bachelor of Arts / Master of Teaching.....	829	STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Master of Arts	869
UTSC, French (Major Co-op), Honours Bachelor of Arts / Master of Teaching	831	STG, Law, Juris Doctor / Economics, Doctor of Philosophy	871
UTM, French Studies (Specialist), Honours Bachelor of Arts / Master of Teaching.....	833	STG, Law, Juris Doctor / Economics, Master of Arts	873
UTM, French Studies (Major), Honours Bachelor of Arts / Master of Teaching	835	STG, Law, Juris Doctor / English, Master of Arts	875
STG, Health Administration, Master of Health Science / Master of Social Work	837	STG, Law, Juris Doctor / European and Russian Affairs, Master of Arts	877
STG, History (Major), Honours Bachelor of Arts / Master of Teaching	839	STG, Law, Juris Doctor / Master of Business Administration.....	879
UTSC, History (Specialist), Honours Bachelor of Arts / Master of Teaching.....	841	STG, Law, Juris Doctor / Master of Global Affairs	881
UTSC, History (Major), Honours Bachelor of Arts / Master of Teaching.....	843	STG, Law, Juris Doctor / Master of Information	883
UTSC, Human Biology (Specialist), Honours Bachelor of Science / Master of Teaching	845	STG, Law, Juris Doctor / Master of Public Policy	884
UTSC, Human Biology (Major), Honours Bachelor of Science / Master of Teaching	847	STG, Law, Juris Doctor / Master of Social Work	886
		STG, Law, Juris Doctor / Philosophy, Doctor of Philosophy	888

STG, Law, Juris Doctor / Political Science, Doctor of Philosophy	889	STG, Pharmacy, Doctor of / Master of Business Administration.....	925
STG, Management, Master of Business Administration / Master of Global Affairs	890	UTSC, Physical and Mathematical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching	927
UTSC, Management and Accounting (Specialist), Bachelor of Business Administration / Master of Accounting and Finance.....	892	STG, Physical Education and Health, Bachelor of Physical and Health Education / Master of Teaching.....	929
UTSC, Management and Accounting (Specialist Co-op), Bachelor of Business Administration / Master of Accounting and Finance.....	894	UTM, Physics (Major), Honours Bachelor of Science / Master of Teaching	931
UTM, Mathematical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching	896	UTSC, Physics and Astrophysics (Specialist), Honours Bachelor of Science / Master of Teaching.....	933
UTM, Mathematical Sciences (Major), Honours Bachelor of Science / Master of Teaching	898	UTSC, Physics and Astrophysics (Major), Honours Bachelor of Science / Master of Teaching.....	935
UTSC, Mathematics (Specialist), Honours Bachelor of Science / Master of Teaching	900	UTSC, Plant Biology (Major), Honours Bachelor of Science / Master of Teaching.....	937
UTSC, Mathematics (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	902	UTM, Psychology (Specialist), Honours Bachelor of Science / Child Study and Education, Master of Arts	939
STG, Mathematics (Major), Honours Bachelor of Science / Master of Teaching	904	STG, Psychology (Major), Honours Bachelor of Science / Master of Teaching	941
UTSC, Mathematics (Major), Honours Bachelor of Science / Master of Teaching.....	906	UTM, Psychology (Major), Honours Bachelor of Science / Child Study and Education, Master of Arts	943
UTSC, Mathematics (Major Co-op), Honours Bachelor of Science / Master of Teaching	908	UTSC, Socio-Cultural Anthropology (Specialist), Honours Bachelor of Arts / Master of Teaching	945
STG, Medicine, Doctor of / Doctor of Philosophy	910	UTSC, Socio-Cultural Anthropology (Major), Honours Bachelor of Arts / Master of Teaching	947
UTSC, Mental Health Studies (Specialist), Honours Bachelor of Science / Master of Social Work	911	STG, Sociology (Major), Honours Bachelor of Arts / Master of Teaching.....	949
UTSC, Mental Health Studies (Specialist Co-op), Honours Bachelor of Science / Master of Social Work	913	UTSC, Sociology (Specialist), Honours Bachelor of Arts / Master of Teaching	951
UTM, Molecular Biology (Specialist), Honours Bachelor of Science / Master of Teaching	915	UTSC, Sociology (Major), Honours Bachelor of Arts / Master of Teaching.....	953
UTSC, Molecular Biology and Biotechnology (Specialist), Honours Bachelor of Science / Master of Teaching	917	UTSC, Theatre and Performance Studies (Major), Honours Bachelor of Arts / Master of Teaching.....	955
UTSC, Molecular Biology and Biotechnology (Specialist Co-op), Honours Bachelor of Science / Master of Teaching	919	Collaborative Specializations.....	957
UTSC, Molecular Biology, Immunology and Disease (Major), Honours Bachelor of Science / Master of Teaching	921	Addiction Studies	958
STG, Music Education (Stream), Bachelor of Music / Master of Teaching.....	923	Aging, Palliative and Supportive Care Across the Life Course	960
		Ancient and Medieval Philosophy	963
		Ancient Greek and Roman History	964

Bioethics	966	Women and Gender Studies.....	1050
Biomedical Engineering.....	968	Women's Health	1051
Book History and Print Culture	971	Workplace Learning and Social Change.....	1053
Cardiovascular Sciences	974		
Community Development	976		
Comparative, International and Development Education.....	978		
Contemporary East and Southeast Asian Studies	981		
Developmental Biology	983		
Development Policy and Power	985		
Diaspora and Transnational Studies	988		
Earth Sciences and Physics.....	990		
Editing Ancient and Medieval Texts	992		
Education, Francophonies and Diversity	994		
Educational Policy	996		
Engineering Education.....	999		
Environment and Health	1001		
Environmental Studies.....	1004		
Ethnic and Pluralism Studies	1008		
Food Studies	1011		
Genome Biology and Bioinformatics	1014		
Global Health (U of T Global Scholar)	1015		
Health Care, Technology, and Place	1017		
Health Services and Policy Research	1019		
Human Development	1021		
Indigenous Health.....	1023		
Jewish Studies	1025		
Knowledge Media Design	1028		
Mediterranean Archaeology	1032		
Musculoskeletal Sciences	1033		
Neuroscience	1035		
Psychology and Engineering	1038		
Public Health Policy	1040		
Resuscitation Sciences.....	1042		
Sexual Diversity Studies	1044		
South Asian Studies.....	1046		
Toxicology.....	1048		

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 93,000 students, including over 20,000 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 300 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

Our mission is to foster excellence in graduate education by supporting and promoting outstanding graduate learning and research in an environment that encourages an exceptional student experience.

The School of Graduate Studies achieves its mission by:

- Working collaboratively to advance excellence and innovation in graduate research and education.
- Fostering an outstanding graduate experience for our diverse student population.
- Creating and promoting opportunities for graduate student professional development.
- Advancing integrity and ethical conduct in graduate research and education.
- Establishing policy and promoting best practices for graduate research and education.
- Providing registrarial and support services for the graduate community.

Dean's Welcome

On behalf of the School of Graduate Studies, welcome to the University of Toronto. I encourage you to make the most of your graduate experience this year by engaging with our top-ranked faculty, who are immersed in innovative research in all disciplines; connecting and collaborating with others in the graduate community; and taking advantage of opportunities with leading hospitals, industries, community organizations, and educational facilities across North America.

In the *SGS Calendar*, we outline the parameters of your program, the regulations and policies that guide it, and some of the key expectations that will inform your time here. SGS also offers a range of graduate-focussed services designed to support you holistically at every stage of your graduate program. I encourage you to explore the [SGS website](#), read the monthly [Gradschool e-news](#), and stay connected to your communities as you explore and advance your knowledge and interests in the year ahead.

I wish you the best in your studies and look forward to supporting your journey,

Joshua Barker

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

Deans of the School of Graduate Studies

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

J. Barker, BA, MA, PhD

Vice-Dean, Programs and Innovation

G. Kerr, BPHE, MA, PhD

Vice-Dean, Students

C. C. Williams, BA, MSW, PhD

About This Calendar

Effective Academic Period

The *2020-2021 School of Graduate Studies Calendar* is effective for the academic period September 1, 2020 to August 31, 2021. 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 HTML and PDF versions in June. The last print edition was published in September 2016.

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](#). 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 five 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.

Degree Regulations discusses general admission and degree requirements for graduate degree programs. More details about each program are outlined in Programs by Graduate Unit.

Fee Regulations explains fee schedules, types of fees, and fees for graduate student categories.

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, institute, school, or Faculty.

The section is divided into three categories:

- degree and diploma programs by graduate unit
- combined degree programs
- collaborative specializations

Each graduate unit entry contains information about the programs offered, admission and program requirements, and courses. 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 more details about a graduate program, visit the graduate 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, 2020, to August 31, 2021. 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 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. All students must become familiar with the policies, and the University will assume that they have 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 on the [Governing Council website](#). 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](#)

Find out more about [students' rights and 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 students wish to voice-record, photograph, video-record, or otherwise reproduce lecture presentations, course notes, or other similar materials provided by instructors, they 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 the privacy of students.

Personal information that is provided 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.

In addition, the Ministry of Training, Colleges, and Universities has asked that we notify students of the following: The University of Toronto is required to disclose personal information such as Ontario Education Numbers, student characteristics, and educational outcomes to the Minister of Training, Colleges and Universities under s. 15 of the *Ministry of Training, Colleges and Universities Act, R.S.O. 1990*, Chapter M.19, as amended. The ministry collects this data for purposes such as planning, allocating and administering public

funding to colleges, universities, and other post-secondary educational and training institutions and to conduct research and analysis, including longitudinal studies, and statistical activities conducted by or on behalf of the ministry for purposes that relate to post-secondary education and training. Further information on how the Minister of Training, Colleges and Universities uses this personal information is available on the ministry's website.

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

If there are questions, please refer to www.utoronto.ca/privacy

or contact:

Coordinator
University Freedom of Information and Protection of Privacy
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 *SGS Calendar*.

2020-2021 Sessional Dates

[View the 2019-20 Sessional Dates \(PDF\).](#)

2020 Fall Session

M July 20	Registration for Fall session begins
M August 3	Civic Holiday (University closed) ⁽¹⁾
F August 28	Recommended tuition fee payment deadline for students registering or starting their program in the Fall session to ensure payment is received by the registration deadline of September 11, and to avoid cancellation of registration and course enrolment. International students must make a payment by this date to ensure they are covered by UHIP at the beginning of September. ⁽²⁾⁽³⁾
F September 4	Coursework must be completed and grades submitted for Summer session courses and extended courses ⁽⁴⁾
M September 7	Labour Day (University closed) ⁽¹⁾
T September 8	Most formal graduate courses and seminars begin ⁽⁵⁾
W September 9	Grades for all Summer session courses available for viewing by students on ACORN
F September 11	Registration deadline for students registering or starting their program in the Fall (September to December) session; after this date, a late registration fee will be assessed. Minimum required payment due (unpaid fees from previous session[s] + 100% of current Fall tuition fee charges). ⁽²⁾
T September 15	Final date to submit final doctoral theses to SGS to avoid fee charges for 2020-21 ⁽⁶⁾
M September 21	Final date to add full-year and Fall session courses
W September 30	Payment deadline to avoid service charges on unpaid Fall (September to December) session tuition and non-tuition fees for students registered in the Fall session only, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will begin accruing on October 15. ⁽³⁾
F October 2	Final date to submit final doctoral theses 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 ⁽⁷⁾
M October 12	Thanksgiving Day (University closed) ⁽¹⁾
M October 26	Final date to drop Fall session courses without academic penalty ⁽⁸⁾
November	Fall Convocation information and dates are posted at governingcouncil.utoronto.ca/convocation .
November	Some Faculties offer a Fall session reading week although SGS regulations do not require this. For example, the Faculty of Arts and Science Fall session reading week takes place from November 9 to 13. To find out if your Faculty has a reading week, please contact them directly.
M November 30	Payment deadline to avoid service charges on unpaid Winter (January to April) session tuition and non-tuition fees for students registered in the Fall and Winter sessions, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will begin accruing on December 15. ⁽³⁾
F December 18	Recommended tuition fee payment deadline for all tuition fees billed for the 2020 tax year (Winter 2020, Summer 2020, and Fall 2020) for students who want eligible 2020 tuition fee payments to be reported on the 2020 calendar T2202 tax certificate, available for students to view and print on ACORN on February 21, 2021
F December 18	Recommended tuition fee payment deadline for students registering or starting their program in the Winter session (i.e., those who were not registered in the previous Fall session) to ensure payment is received by the registration deadline of January 18, and to avoid cancellation of registration and course enrolment. International students must make a payment by this date to ensure they are covered by UHIP at the beginning of January. ⁽²⁾⁽³⁾
W December 23	University closed for the winter break from Wednesday, December 23 to Friday, January 1 inclusive. For the last day of classes before the winter break, consult your graduate unit(s). ⁽¹⁾

2021 Winter Session

M January 4	University re-opens
M January 4	Most formal graduate courses and seminars begin ⁽⁵⁾
F January 8	Coursework must be completed and grades submitted for Fall session courses ⁽⁴⁾
W January 13	Grades for Fall session courses available for viewing by students on ACORN
F January 15	Final date to submit doctoral theses without payment of incidental Winter session fees ⁽⁹⁾
M January 18	Registration deadline for students registering or starting their program in the Winter (January to April) session; after this date, a late registration fee will be assessed. Minimum required payment due (unpaid fees from previous session[s] + 100% of current Winter session tuition fee charges). ⁽²⁾
M January 18	Final date to add Winter session courses

F January 22	Final date for receipt of master's degree recommendations from graduate units and submission of any required theses for March or June graduation for master's students without fees being charged for the Winter session ⁽⁷⁾
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 theses for March graduation <i>in absentia</i> ⁽⁶⁾
F January 22	Students dually registered in the Fall session must be recommended for the master's degree by this date to maintain their PhD registration ⁽⁷⁾⁽¹⁰⁾
S January 31	Payment deadline to avoid service charges on unpaid Winter (January to April) session tuition and non-tuition fees for students registered in the Winter session only, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will begin accruing on February 15 ⁽³⁾ .
February	Some Faculties offer a Winter session reading week although SGS regulations do not require this. For example, the Faculty of Arts and Science Winter session reading week takes place from February 15 to 19. To find out if your Faculty has a reading week, please contact them directly.
M February 15	Family Day (University closed) ⁽¹⁾
M February 22	Final date to drop full-year and Winter session courses without academic penalty ⁽⁸⁾
March	March graduation <i>in absentia</i> information is posted at governingcouncil.utoronto.ca/convocation
April	For the last day of Winter classes, consult your graduate unit(s)
F April 2	Good Friday (University closed) ⁽¹⁾
F April 16	For students obtaining degrees at June Convocation, coursework must be completed and grades submitted for full-year and Winter session courses
F April 16	Final date for receipt of master's degree recommendations from graduate units and submission of any required theses from master's students for June Convocation ⁽⁷⁾
F April 16	Final date for submission of final doctoral theses for students whose degrees are to be conferred at the June Convocation ⁽⁶⁾
F April 16	Students dually registered in the Winter session must be recommended for the master's degree by this date to maintain their PhD registration ⁽⁷⁾⁽¹⁰⁾
F April 23	Recommended tuition fee payment deadline for students registering or starting their program in the Summer session to ensure payment is received by the registration deadline of May 7, and to avoid cancellation of registration and course enrolment ⁽²⁾⁽³⁾
F April 30	Payment deadline to avoid service charges on unpaid Fall/Winter (September to April) session tuition and non-tuition fees for students who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, and/or sponsorships. Monthly service charges will begin accruing on May 17. ⁽²⁾⁽³⁾

2021 Summer Session

May	For the first day of Summer classes, consult your graduate unit(s)
F May 7	Registration deadline for students registering or starting their program in the Summer (May to August) session; after this date, a late registration fee will be assessed. Minimum required payment due (unpaid fees from previous session[s] + 50% of Summer session tuition fees). ⁽²⁾
M May 10	Final date to enrol in May-to-June or May-to-August session courses
F May 14	Coursework must be completed and grades submitted for full-year and Winter session courses (except for extended courses) ⁽⁴⁾
W May 19	Winter session grades available for viewing by students on ACORN
F May 21	Presidential Day (University closed) ⁽¹⁾
M May 24	Victoria Day (University closed) ⁽¹⁾
F May 28	Final date to drop May-to-June F section courses without academic penalty ⁽⁸⁾
M May 31	Payment deadline to avoid service charges on unpaid Summer (May to August) session tuition and non-tuition fees for students registered in the Summer session, except for those who have successfully registered without payment because they are receiving a full funding package via a research stipend, a major award or scholarship, teaching assistantships, tuition waiver, and/or sponsorships. Monthly service charges will begin accruing on June 15. ⁽³⁾
June	June Convocation information and dates are posted at governingcouncil.utoronto.ca/convocation
M June 14	Final date to drop May-to-August session Y section courses without academic penalty ⁽⁸⁾
Th July 1	Canada Day (University closed) ⁽¹⁾
M July 5	Final date to enrol in July-to-August courses ⁽¹¹⁾
F July 9	Coursework must be completed and grades submitted for May-to-June F section courses ⁽⁴⁾
M July 12	Final date to drop July-to-August S section courses without academic penalty ⁽⁸⁾
W July 14	Grades for May-to-June F section courses available for viewing by students on ACORN
M Aug 2	Civic Holiday (University closed) ⁽¹⁾

Footnotes

1	University holiday schedule
2	<p>Students are considered registered when tuition and non-tuition fees have been paid or when their request to register without payment (fee deferral) is approved. A student's status will change from "Invited" to "Registered" in ACORN when registration is complete.</p> <p>Students who successfully register without payment should arrange to make payments throughout the academic year as they receive funding from their scholarship, award, or other sources. Full payment of Fall and Winter session tuition and residence fees is due by April 30 at the latest.</p> <p>Students registered in the Fall and Winter sessions are not normally charged Summer fees. For students starting in the Summer, fees will appear in their ACORN invoice accordingly.</p>
3	This allows up to 10 business days for processing and recording of the fee payment in the student's ACORN account before the monthly service charge billing date for unpaid tuition and non-tuition fees. More information on service charges can be found on the Student Accounts website .
4	Graduate units may establish earlier deadlines for completion of coursework and may prescribe penalties for late completion of work and for failure to complete work, provided that these penalties are announced at the time the instructor makes known to the class the methods by which student performance shall be evaluated.
5	<p>The precise dates of commencement of courses are determined by the graduate units; students are advised 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. 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 Accommodation: Religious Observances. The obligation not to discriminate on the basis of religion is a statutory duty arising from the <i>Ontario Human Rights Code</i>, which carries an obligation to accommodate religious requirements.</p> <p>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.</p>
6	A final thesis is the corrected, approved version of the thesis which is submitted to SGS following the Final Oral Examination.
7	Graduate units may establish earlier deadlines for completing degree requirements. Students are advised to consult their own graduate unit for information.
8	Graduate units may establish earlier deadlines to add/drop courses but these dates must clearly be communicated to students. 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. Please refer to the Tuition Fee & Refund Schedules for Graduate Studies on the Student Accounts website .
9	Academic fees for full-time doctoral students in the final year of their program, and who are before their maximum time limit, are pro-rated based on the 12-month academic year. Sessional incidentals will be charged at a full rate. Academic fees for doctoral students in the final extension year, and who are beyond their maximum time limit, are prorated based on 50% of the annual domestic fee for the 12-month academic year. Sessional incidentals will be charged at a full rate. For details, visit Final-Year Fees .
10	Please refer to the SGS policy on Dual Registration under General Regulations section 6.1.13
11	Students who start their program in the Summer and returning OISE students who are only enrolled in July-to-August Summer courses are required to register by this date by paying the minimum tuition amount stated in their invoice.

Programs by SGS Division

Graduate units (departments, centres, institutes, schools, or Faculties) are allocated into four divisions. Collaborative (interdisciplinary) specializations are designated as CS.

Division 1: Humanities

Ancient and Medieval Philosophy (CS)
Art History
Book History and Print Culture (CS)
Cinema Studies
Classics
Comparative Literature
Diaspora and Transnational Studies (CS)
Drama, Theatre and Performance Studies
East Asian Studies
Editing Ancient and Medieval Texts (CS)
English
French Language and Literature
Germanic Languages and Literatures
History
History and Philosophy of Science and Technology
Italian Studies
Jewish Studies (CS)
Linguistics
Medieval Studies
Mediterranean Archaeology (CS)
Museum Studies (program housed in Information)
Music
Near and Middle Eastern Civilizations
Philosophy
Religion
Slavic Languages and Literatures
South Asian Studies (CS)
Spanish
Visual Studies (program housed in Architecture, Landscape, and Design)
Women and Gender Studies
Women and Gender Studies (CS)

Division 2: Social Sciences

Anthropology
Applied Psychology and Human Development
Architecture, Landscape, and Design
Community Development (CS)
Comparative, International and Development Education (CS)
Contemporary East and Southeast Asian Studies (CS)
Criminology and Sociolegal Studies
Curriculum, Teaching and Learning
Development Policy and Power (CS)
Economics

Education, Francophonies and Diversity (CS)
Educational Policy (CS)
Ethnic and Pluralism Studies (CS)
European, Russian, and Eurasian Studies
Financial Economics
Financial Insurance (program housed in Statistical Sciences)
Forensic Accounting (program housed in Management & Innovation)
Food Studies (CS)
Geography and Planning
Global Affairs and Public Policy
Industrial Relations and Human Resources
Information
Investigative and Forensic Accounting (diploma program housed in Management & Innovation)
Law
Leadership, Higher and Adult Education
Management, Rotman School of
Management and Professional Accounting (program housed in Management & Innovation)
Management, Tri-campus
Management, University of Toronto Scarborough
Political Science
Psychological Clinical Science
Sexual Diversity Studies (CS)
Social Justice Education
Social Work
Sociology
Urban Innovation (program housed in Management & Innovation)
Workplace Learning and Social Change (CS)

Division 3: Physical Sciences

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

Psychology and Engineering (CS)
Statistical Sciences
Theoretical Astrophysics

Division 4: Life Sciences

Addiction Studies (CS)
Aging, Palliative and Supportive Care Across the Life Course (CS)
Biochemistry
Bioethics (CS)
Biotechnology (program housed in Management & Innovation)
Cardiovascular Sciences (CS)
Cell and Systems Biology
Dentistry
Developmental Biology (CS)
Ecology and Evolutionary Biology
Forestry
Genome Biology and Bioinformatics (CS)
Global Health (CS)
Health Policy, Management and Evaluation
Health Services and Policy Research (CS)
Human Development (CS)
Immunology
Indigenous Health (CS)
Kinesiology
Laboratory Medicine
Laboratory Medicine and Pathobiology

Management of Innovation (program housed in Management & Innovation)
Medical Biophysics
Medical Science
Molecular Genetics
Musculoskeletal Sciences (CS)
Neuroscience (CS)
Nursing Science
Nutritional Sciences
Occupational Science and Occupational Therapy
Pharmaceutical Sciences
Pharmacology and Toxicology
Physical Therapy
Physiology
Psychology
Public Health Policy (CS)
Public Health Sciences
Rehabilitation Sciences
Resuscitation Sciences (CS)
Speech-Language Pathology
Sustainability Management (program housed in Management & Innovation)
Toxicology (CS)
Women's Health (CS)

Graduate Programs at a Glance

Degree Programs

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, EdD
	Counselling and Clinical Psychology	MA, PhD
	Counselling Psychology	MEd ^p , EdD ^p
	Developmental Psychology and Education	MA, MEd ^p , PhD ^{flex}
	School and Clinical Child Psychology	MA, PhD
Architecture, Landscape, and Design	Architecture	MArch
	Architecture, Landscape, and Design	PhD
	Landscape Architecture	MLA
	Urban Design	MUD
	Visual Studies	MVS
Art History	Art History	MAp, PhD
Astronomy and Astrophysics	Astronomy and Astrophysics	MSc, PhD
Biochemistry	Biochemistry	MSc, PhD
Biomedical Engineering	Biomedical Engineering	MASc, MEng ^p , 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 and Mineral 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
	Computer Science	MScp, PhD
Criminology and Sociolegal Studies	Criminology and Sociolegal Studies	MAp, PhD
Curriculum, Teaching and Learning	Curriculum and Pedagogy	MAp, MEd ^p , PhD ^{flex}
	Language and Literacies Education	MA ^p , MEdp, PhD ^{flex}
	Teaching	MT
Dentistry	Dentistry	MSc ^p , PhD ^{flex}
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
Electrical and Computer Engineering	Electrical and Computer Engineering	MASc, MEng ^{EFT, p} , PhD
English	English	MAp, PhD
European, Russian, and Eurasian Studies	European and Russian Affairs	MA
Financial Economics	Financial Economics	MFE
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	MScPI ^p , PhD
	Urban Design Studies*	MUDS
Germanic Languages and Literatures	Germanic Languages and Literatures	MA ^p
	Germanic Literature, Culture and Theory	PhD
Global Affairs and Public Policy	Global Affairs	MGA
	Public Policy	MPP
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
Information	Information	MI ^p
	Information Studies	PhD ^{flex}
	Museum Studies	MMSt
Italian Studies	Italian Studies	MA ^p , PhD
Kinesiology	Kinesiology	MSc ^p , PhD ^{flex}
	Professional Kinesiology	MPK
Laboratory Medicine and Pathobiology	Laboratory Medicine and Pathobiology	MSc, PhD
	Laboratory Medicine	MHSc
	Translational Research in the Health Sciences	MHSc
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 & Innovation	Biotechnology	MBiotech
	Forensic Accounting	MFAcc
	Management & Professional Accounting	MMPA
	Management of Innovation	MMI
	Sustainability Management	MScSM
	Urban Innovation	MUI
Management, Rotman School of	Finance	MFp
	Financial Risk Management	MFRM
	Management	MBA ^{EFT}
	Management Analytics	MMA
Management, Tri-campus	Management	PhD
Management, University of Toronto Scarborough	Accounting and Finance	MAccFin
Materials Science and Engineering	Materials Science and Engineering	MASc, MEng ^{EFT, p} , PhD
Mathematical Finance	Mathematical Finance	MMFp

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	Biomedical Communications	MScBMC
	Medical Science	MSc, PhD
Medieval Studies	Medieval Studies	MA ^p , PhD
Molecular Genetics	Genetic Counselling	MSc
	Medical Genomics	MHSc
	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, DN, PhD
Nutritional Sciences	Nutritional Sciences	MSc ^p , PhD
Occupational Science and Occupational Therapy	Occupational Therapy	MScOT
Pharmaceutical Sciences	Pharmaceutical Sciences	MSc ^p , PhD ^{flex}
	Pharmacy	MScPhm
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	Medical Physiology	MHSc
	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	Bioethics	MHSc
	Community Health	MScCH ^p
	Public Health Sciences	MPH ^p , MSc ^p , DrPH, PhD ^{flex}
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	Financial Insurance	MFI
	Statistics	MSc ^p , PhD
Women and Gender Studies	Women and Gender Studies	MA, PhD

Combined Degree Programs

Undergraduate / Master's Degree Programs

Degrees in the Combination	Combined Degree Program
BASc / MBA	<u>STG, The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Management, Master of Business Administration</u>
BBA / MAccFin	<u>UTSC, Bachelor of Business Administration, Specialist in Management and Accounting / Master of Accounting and Finance</u>
BBA / MAccFin	<u>UTSC, Bachelor of Business Administration, Specialist Co-op in Management and Accounting / Master of Accounting and Finance</u>
BKin / MT	<u>STG, Bachelor of Kinesiology / Master of Teaching</u>
HBA / MScSM	<u>UTM, Honours Bachelor of Arts, Major in Environmental Management / Master of Science in Sustainability Management</u>
HBA / MScSM	<u>UTM, Honours Bachelor of Arts, Specialist in Environmental Management / Master of Science in Sustainability Management</u>
HBA / MT	<u>STG, Honours Bachelor of Arts, Major in English / Master of Teaching</u>
HBA / MT	<u>STG, Honours Bachelor of Arts, Major in History / Master of Teaching</u>
HBA / MT	<u>STG, Honours Bachelor of Arts, Major in Sociology / Master of Teaching</u>
HBA / MT	<u>UTM, Honours Bachelor of Arts, Major in French Studies / Master of Teaching</u>
HBA / MT	<u>UTM, Honours Bachelor of Arts, Major in Language Teaching and Learning: French / Master of Teaching</u>
HBA / MT	<u>UTM, Honours Bachelor of Arts, Specialist in French Studies / Master of Teaching</u>
HBA / MT	<u>UTM, Honours Bachelor of Arts, Specialist in Language Teaching and Learning: French and Italian / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in English / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major Co-op in English / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in French / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major Co-op in French / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in History / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in Human Geography / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in Socio-Cultural Anthropology / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in Sociology / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Major in Theatre and Performance / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in English / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist Co-op in English / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in French / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist Co-op in French / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in History / Master of Teaching</u>

HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in Human Geography / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in Socio-Cultural Anthropology / Master of Teaching</u>
HBA / MT	<u>UTSC, Honours Bachelor of Arts, Specialist in Sociology / Master of Teaching</u>
HBSc / MA	<u>UTM, Honours Bachelor of Science, Major in Psychology / Child Study and Education, Master of Arts</u>
HBSc / MA	<u>UTM, Honours Bachelor of Science, Specialist in Exceptionality in Human Learning / Child Study and Education, Master of Arts</u>
HBSc / MA	<u>UTM, Honours Bachelor of Science, Specialist in Psychology / Child Study and Education, Master of Arts</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Civil Engineering, Master of Engineering</u>
HBSc / MEng	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Civil Engineering, Master of Engineering</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Conservation and Biodiversity / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Master of Environmental Science</u>
HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Master of Environmental Science</u>

HBSc / MEnvSc	<u>UTSC, Honours Bachelor of Science, Specialist in Integrative Biology / Master of Environmental Science</u>
HBSc / MScSM	<u>UTM, Honours Bachelor of Science, Major in Environmental Science / Master of Science in Sustainability Management</u>
HBSc / MScSM	<u>UTM, Honours Bachelor of Science, Specialist in Environmental Science / Master of Science in Sustainability Management</u>
HBSc / MSW	<u>UTSC, Honours Bachelor of Science, Specialist in Mental Health Studies / Master of Social Work</u>
HBSc / MSW	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Mental Health Studies / Master of Social Work</u>
HBSc / MT	<u>STG, Honours Bachelor of Science, Major in Mathematics / Master of Teaching</u>
HBSc / MT	<u>STG, Honours Bachelor of Science, Major in Psychology / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Major in Biology / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Major in Biology for Health Sciences / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Major in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Major in Mathematical Sciences / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Major in Physics / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Astronomical Sciences / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Biological Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Biology / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Comparative Physiology / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Ecology and Evolution / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Forensic Biology / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Forensic Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Mathematical Sciences / Master of Teaching</u>
HBSc / MT	<u>UTM, Honours Bachelor of Science, Specialist in Molecular Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Biochemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major Co-op in Biochemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major Co-op in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Conservation and Biodiversity / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Evolutionary Anthropology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Human Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Mathematics / Master of Teaching</u>

HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major Co-op in Mathematics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Molecular Biology, Immunology and Disease / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Physics and Astrophysics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Major in Plant Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Biological Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Biological Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Conservation and Biodiversity / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Evolutionary Anthropology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Human Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Integrative Biology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Mathematics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Mathematics / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Molecular Biology and Biotechnology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist Co-op in Molecular Biology and Biotechnology / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Physical and Mathematical Sciences / Master of Teaching</u>
HBSc / MT	<u>UTSC, Honours Bachelor of Science, Specialist in Physics and Astrophysics / Master of Teaching</u>
MusBac / MT	<u>STG, Bachelor of Music, Music, Stream in Music Education / Master of Teaching</u>

Second-Entry Undergraduate / Master's Degree Programs

Degrees in the Combination	Combined Degree Program
JD / MA	<u>STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Master of Arts</u>
JD / MA	<u>STG, Law, Juris Doctor / Economics, Master of Arts</u>
JD / MA	<u>STG, Law, Juris Doctor / English, Master of Arts</u>

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

Second-Entry Undergraduate / Doctoral Degree Programs

Degrees in the Combination	Combined Degree Program
JD / PhD	STG, Law, Juris Doctor /Criminology and Sociolegal Studies, Doctor of Philosophy
JD/ PhD	STG, Law, Juris Doctor /Economics, Doctor of Philosophy
JD / PhD	STG, Law, Juris Doctor /Philosophy, Doctor of Philosophy
JD/ PhD	STG, Law, Juris Doctor /Political Science, Doctor of Philosophy
MD/ PhD	STG, Medicine, Doctor of /Doctor of Philosophy

Master's / Master's Degree Programs

Degrees in the Combination	Combined Degree Program
MBA / MGA	STG, Management, Master of Business Administration / Master of Global Affairs
MHSc / MSW *	STG, Health Administration, Master of Health Science / Master of Social Work
MI / MMSt	STG, Master of Information / Master of Museum Studies

* Admissions have closed

Dual Degree Programs

Graduate Unit	Program Name	Degrees
<u>Global Affairs and Public Policy</u>	Master of Global Affairs (University of Toronto) / Master of International Affairs (Hertie School of Governance)	MGA / MIA
	Master of Global Affairs (University of Toronto) / Master of Public Policy (Sciences Po)	MGA / MPP
<u>Law</u>	Bachelor of Laws (National University of Singapore) / Master of Laws (University of Toronto)	LLB / LLM
	Bachelor of Laws (Tsinghua University) / Master of Laws (University of Toronto)	LLB / LLM
	Master of Laws (University of Toronto) / Juris Master (Tsinghua University)	LLM / JM
	Master of Laws (University of Toronto) / Master of Laws (Tsinghua University)	LLM / LLM
<u>Management, Rotman School of Management</u>	Global Executive Master of Business Administration (University of Toronto / Bocconi University)	MBA
<u>Mechanical and Industrial Engineering</u>	Bachelor of Engineering (South China University of Technology) / Master of Engineering (University of Toronto)	BEng / MEng

Collaborative Specializations

Collaborative Specialization	Participating Degree Programs	Degrees
<u>Addiction Studies</u>	Community Health Counselling and Clinical Psychology Criminology and Sociolegal Studies Information Medical Science Nursing Science Pharmaceutical Sciences Pharmacology Psychology Public Health Sciences Social Work Sociology	MScCH MA, PhD MA, PhD PhD MSc, PhD PhD MSc, PhD MSc, PhD MA, PhD MPH, MSc, PhD MSW, PhD MA, PhD
<u>Aging, Palliative and Supportive Care Across the Life Course</u>	Adult Education and Community Development Anthropology Counselling and Clinical Psychology Counselling Psychology Dentistry Health Administration Health Policy, Management and Evaluation Information 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 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
<u>Ancient and Medieval Philosophy</u>	Classics Medieval Studies Philosophy	PhD PhD PhD
<u>Bioethics</u>	Health Administration Health Policy, Management and Evaluation Law Medical Science	MHSc MSc, PhD LLM, SJD MSc, PhD

	Nursing Science Pharmaceutical Sciences Philosophy Public Health Sciences Rehabilitation Science Religion Social Work Women and Gender Studies	MN, PhD MSc, PhD MA, PhD MPH, MSc, PhD MSc, PhD MA, PhD PhD MA
Biomedical Engineering	Biochemistry Biomedical Engineering Chemical Engineering and Applied Chemistry Chemistry Dentistry Electrical and Computer Engineering Laboratory Medicine and Pathobiology Materials Science and Engineering Mechanical and Industrial Engineering Medical Biophysics Medical Science Pharmaceutical Sciences Physics Physiology Rehabilitation Science	MSc, PhD MASc, PhD MASc, PhD MSc, PhD MSc, PhD MASc, PhD MSc, PhD MASc, PhD MASc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD
Book History and Print Culture	Art History Classics Comparative Literature East Asian Studies English French Language and Literature Germanic Languages and Literatures Germanic Literature, Culture and Theory History History and Philosophy of Science and Technology Information Italian Studies Medieval Studies Museum Studies Music Religion Spanish	MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA PhD MA, PhD MA, PhD MI, PhD MA, PhD MA, PhD MA, PhD MMSt MA, PhD MA, PhD MA, PhD
Cardiovascular Sciences	Biomedical Engineering Chemical Engineering and Applied Chemistry Clinical Engineering Dentistry Exercise Sciences Laboratory Medicine and Pathobiology Medical Biophysics Medical Science Pharmaceutical Sciences Pharmacology Physiology Rehabilitation Science	MASc, PhD MASc, PhD MHSc MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD
Community Development	Adult Education and Community Development Counselling and Clinical Psychology (field: Counselling and Psychotherapy) Counselling Psychology Geography Planning Public Health Sciences Social Work	MA, MEd MA MEd MA MScPI MPH MSW
Comparative, International and Development Education	Adult Education and Community Development Curriculum Studies and Teacher Development Educational Leadership and Policy Higher Education Language and Literacies Education Social Justice Education	MA, MEd, PhD MA, MEd, PhD MA, MEd, EdD, PhD MA, MEd, EdD, PhD MA, MEd, PhD MA, MEd, EdD, PhD

<u>Contemporary East and Southeast Asian Studies</u>	Anthropology East Asian Studies Geography Global Affairs History Management Planning Political Science Public Policy Social Work Sociology Women and Gender Studies	MA MA MA MGA MA MBA MScPI MA MPP MSW MA MA
<u>Developmental Biology</u>	Biochemistry Biomedical Engineering Cell and Systems Biology Clinical Engineering Immunology Laboratory Medicine and Pathobiology Medical Science Molecular Genetics Physiology	MSc, PhD MASc, PhD MSc, PhD MHSc MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD
<u>Development Policy and Power</u>	Anthropology Environmental Science Geography Political Science Public Health Social Justice Education Sociology	MA, MSc MEnvSc MA MA MPH MA, MEd MA
<u>Diaspora and Transnational Studies</u>	Anthropology Art History Cinema Studies Comparative Literature Criminology and Sociolegal Studies Drama, Theatre and Performance Studies English Geography Germanic Languages and Literature Germanic Literature, Culture and Theory History 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, 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, MEd, EdD, PhD MA, PhD MA, PhD MA, PhD
<u>Editing Ancient and Medieval Texts</u>	Classics English History Italian Studies Medieval Studies Music Philosophy Religion Spanish	PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD
<u>Education, Francophonies and Diversity</u>	Curriculum Studies and Teacher Development Language and Literacies Education Social Justice Education	MA, MEd, PhD MA, MEd, PhD MA, MEd, EdD, PhD
<u>Educational Policy</u>	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	MASc, PhD MASc, PhD MA, PhD MASc, PhD
Environment and Health	Adult Education and Community Development Chemical Engineering and Applied Chemistry Community Health Environmental Science Forest Conservation Forestry Geography Medical Science Planning Public Health Sciences Women and Gender Studies	MA, MEd, PhD MASc, PhD MScCH MEnvSc, PhD MFC MScF, PhD MA, MSc, PhD MSc, PhD MScPI, PhD MPH, PhD MA, PhD
Environmental Studies	Adult Education and Community Development Anthropology Chemical Engineering and Applied Chemistry Chemistry Civil Engineering Earth Sciences Ecology and Evolutionary Biology Forest Conservation Forestry Geography Global Affairs Information Management Music Physics Planning Political Science Public Policy Religion Social Justice Education Sociology Sustainability Management Women and Gender Studies	MA, MEd, PhD MA, MSc, PhD MASc, MEng, PhD MSc, PhD MASc, MEng, MEngCEM, PhD MSc, PhD PhD MFC MScF, PhD MA, MSc, PhD MGA MI, PhD MBA, PhD MA, PhD MSc, PhD MScPI, PhD MA, PhD MPP MA, PhD MA, MEd, EdD, PhD MA, PhD MScSM MA, PhD
Ethnic and Pluralism Studies	Anthropology Educational Leadership and Policy European and Russian Affairs Geography Global Affairs History Industrial Relations and Human Resources Language and Literacies Education Political Science Public Policy Religion Social Justice Education Social Work Sociology Women and Gender Studies	MA, PhD MA, MEd, EdD, PhD MA MA, PhD MGA MA, PhD MIRHR, PhD MA, MEd, PhD MA, PhD MPP MA, PhD MA, MEd, EdD, PhD MSW, PhD MA, PhD MA, PhD
Food Studies	Anthropology East Asian Studies Environmental Science Geography and Planning History Information Museum Studies Nutritional Sciences Public Health Sciences Sociology	MA, PhD MA, PhD MA, PhD MA, MSc, PhD MA, PhD MI MMSt MSc, PhD PhD MA, PhD
Genome Biology and Bioinformatics	Biochemistry Biomedical Engineering Cell and Systems Biology Chemical Engineering and Applied Chemistry Computer Science	PhD PhD PhD PhD PhD

	Ecology and Evolutionary Biology Laboratory Medicine and Pathobiology Medical Biophysics Medical Science Molecular Genetics	PhD PhD PhD PhD PhD
Global Health (U of T Global Scholar)	Anthropology Chemical Engineering and Applied Chemistry Community Health Dentistry Geography Health Policy, Management and Evaluation Law Management Medical Science Nursing Science Pharmaceutical Sciences Planning Political Science Public Health Sciences Rehabilitation Science	MA, MSc, PhD MSc, MEng, PhD MScCH MSc (thesis only), PhD MA, MSc, PhD MSc (thesis only), PhD LLM, SJD PhD PhD PhD MSc (thesis only), PhD MScPI, PhD PhD MPH, MSc (thesis only), PhD MSc, PhD
Health Care, Technology, and Place (admissions have closed)	Biomedical Engineering English Health Policy, Management and Evaluation Mechanical and Industrial Engineering Medical Science Pharmaceutical Sciences Public Health Sciences Rehabilitation Science Social Work	PhD PhD PhD PhD PhD PhD PhD PhD PhD
Health Services and Policy Research	Exercise Sciences Health Policy, Management and Evaluation Pharmaceutical Sciences Public Health Sciences Rehabilitation Science Social Work	MSc, PhD MSc, PhD MSc, PhD PhD MSc PhD
Human Development (admissions have been suspended)	Biomedical Engineering Developmental Psychology and Education Ecology and Evolutionary Biology Immunology Medical Science Medical Biophysics Music Nutritional Sciences Pharmacology Physiology Psychology Public Health Sciences Social Work	PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD PhD
Indigenous 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
Jewish Studies	Anthropology Art History Classics Comparative Literature Drama, Theatre and Performance Studies English European and Russian Affairs Geography Germanic Languages and Literatures Germanic Literature, Culture and Theory	MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA PhD MA PhD

	History Information Law Linguistics Medieval Studies Museum Studies Music Music Performance Near and Middle Eastern Civilizations Philosophy Political Science Religion Slavic Languages and Literatures Sociology Women and Gender Studies	MA, PhD PhD LLM, MSL, SJD PhD MA, PhD MMSt MA, PhD DMA MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, Ph MA
Knowledge Media Design	Architecture Computer Science Curriculum Studies and Teacher Development Drama, Theatre and Performance Studies Information Landscape Architecture Language and Literacies Education Mechanical and Industrial Engineering Medical Science Museum Studies Religion Urban Design	MArch MSc, PhD MA, MEd, PhD MA, hD MI, PhD MLA MA, MEd, PhD MASc, MEng, PhD MSc, PhD MMSt MA, PhD MUD
Mediterranean Archaeology	Anthropology Art History Classics Near and Middle Eastern Civilizations Religion	PhD PhD PhD PhD PhD
Musculoskeletal Sciences	Biomedical Engineering Dentistry Exercise Sciences Laboratory Medicine and Pathobiology Medical Science Pharmacology and Toxicology Rehabilitation Science	MASc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD
Neuroscience	Biochemistry Bioethics Biomedical Engineering Cell and Systems Biology Clinical Engineering Community Health Computer Science Dentistry Developmental Psychology and Education Laboratory Medicine and Pathobiology Medical Biophysics Medical Science Music Pharmaceutical Sciences Pharmacology Physiology Psychology Public Health Sciences Rehabilitation Science	MSc, PhD MHSc MASc, PhD MSc, PhD MHSc MScCH MSc, PhD MSc, PhD MA, PhD MSc, PhD MSc, PhD MSc, PhD MA, PhD MSc, PhD MSc, PhD MA, PhD MPH, MSc, PhD MSc, PhD
Psychology and Engineering	Mechanical and Industrial Engineering Psychology	MASc, PhD MA, PhD
Public Health Policy	Exercise Sciences Health Administration Health Policy, Management and Evaluation Nutritional Sciences Public Health Sciences Public Policy Social Work	MSc, PhD MHSc MSc, PhD MSc, PhD MPH, MSc, PhD MPP MSW, PhD

Resuscitation Sciences	Biomedical Engineering Clinical Engineering Community Health Health Policy, Management and Evaluation Immunology Laboratory Medicine and Pathobiology Mechanical and Industrial Engineering Medical Science Nursing Science Pharmaceutical Sciences Pharmacology Physiology Public Health Sciences Rehabilitation Science	PhD MHSc MScCH MSc, PhD MSc, PhD MSc, PhD MASc, MEng, PhD MSc, PhD MN, PhD MSc, PhD MSc, PhD MSc, PhD MPH, MSc, PhD MSc, PhD
Sexual Diversity Studies	Adult Education and Community Development Anthropology Art History Cinema Studies Classics Comparative Literature Counselling Psychology Counselling and Clinical Psychology Criminology and Sociolegal Studies Curriculum Studies and Teacher Development Drama, Theatre and Performance Studies East Asian Studies Educational Leadership and Policy English Exercise Sciences French Language and Literature Geography Higher Education History History and Philosophy of Science and Technology Immunology Information Italian Studies Law Linguistics Medieval Studies Museum Studies Music Near and Middle Eastern Civilizations Philosophy Political Science Psychology Public Health Sciences Public Policy Religion Slavic Languages and Literatures Social Justice Education Social Work Sociology Visual Studies Women and Gender Studies	MA, MEd, PhD MA, MSc, PhD MA, PhD MA MA, PhD MA, PhD MEd, EdD MA, PhD MA, PhD MA, MEd, PhD MA, PhD MA, PhD MA, MEd, EdD, PhD MA, PhD MSc, PhD MA, PhD MA, PhD MA, MEd, EdD, PhD MA, PhD MA, PhD PhD MI, PhD MA, PhD LLM, MSL, SJD MA, PhD MA, PhD MMSt MA, PhD MA, PhD MA, PhD MA, PhD MPH, MSc, PhD MPP MA, PhD MA, PhD MA, MEd, EdD, PhD MSW, PhD MA, PhD MVS MA, PhD
South Asian Studies	Anthropology Comparative Literature Drama, Theatre and Performance Studies East Asian Studies English Geography History Music Political Science Religion Social Justice Education Women and Gender Studies	MA, MSc, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD MA, PhD PhD MA, PhD MA, MEd, EdD, PhD MA, PhD

Toxicology	Laboratory Medicine and Pathobiology Medical Science Nutritional Sciences Pharmaceutical Sciences Pharmacology	MSc, PhD MSc, PhD MSc, PhD MSc, PhD MSc, PhD
Women and Gender Studies	Adult Education and Community Development Anthropology Cinema Studies Classics Comparative Literature Counselling and Clinical Psychology Counselling Psychology Criminology and Sociolegal Studies Curriculum Studies and Teacher Development Drama, Theatre and Performance Studies East Asian Studies Educational Leadership and Policy English Exercise Sciences French Language and Literature Geography Germanic Languages and Literatures Germanic Literature, Culture and Theory Health Administration Health Policy, Management and Evaluation Higher Education History Information Language and Literacies Education Law Medieval Studies Near and Middle Eastern Civilizations Philosophy Planning Political Science Public Health Sciences Religion Social Justice Education Social Work Sociology Spanish	MA, MEd, PhD MA, MSc, PhD MA MA, PhD MA, PhD MA, PhD MEd, EdD MA, PhD MA, MEd, PhD MA, PhD MA, PhD MA, MEd, EdD, PhD MA, PhD MSc, PhD MA, PhD MA, MSc, MA PhD MHSc MSc, PhD MA, MEd, EdD, PhD MA, PhD MI, PhD MA, MEd, PhD LLM, SJD MA, PhD MA, PhD MA, PhD MScPI, PhD MA, PhD MPH, PhD MA, PhD MA, MEd, EdD, PhD MSW, PhD MA, PhD MA, PhD
Women's Health	Anthropology Dentistry English Exercise Sciences Health Policy, Management and Evaluation Immunology Information Medical Science Nursing Science Nutritional Sciences Occupational Therapy Pharmacology Psychology Public Health Sciences Rehabilitation Science Religion Social Work Women and Gender Studies	MA, MSc, PhD MSc, PhD MA, PhD MSc, PhD MSc, PhD MSc, PhD PhD MSc, PhD MN, PhD MSc, PhD MScOT MSc, PhD MA, PhD MPH, PhD MSc, PhD MA, PhD MSW, PhD MA, PhD
Workplace Learning and Social Change	Adult Education and Community Development Industrial Relations and Human Resources Rehabilitation Science Social Justice Education Women and Gender Studies	MA, MEd, PhD MIRHR, PhD MSc, PhD MA, MEd, EdD, PhD MA

Diploma Programs

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

Legend

*	Admissions suspended
**	Admissions closed
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	GDipIS ^p
Management	Professional Accounting	GDipPA
Management & Innovation	Investigative and Forensic Accounting*	DIFA ^{p~}
Medical Science	Graduate Diploma in Health Research	GDipHR ^{p~}
Nursing Science	Post-Master's Nurse Practitioner	DipNP ^p (PMNP)
Social Work	Advanced Diploma in Social Service Administration**	DSSA ^p

General Regulations

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

- 1 Organization of the School of Graduate Studies
- 2 Categories of Students
- 3 Application for Admission to a Degree Program
- 4 Admission Regulations and Procedures
- 5 Structure of Academic Programs
- 6 Registration and Enrolment
- 7 Good Academic Standing and Satisfactory Academic Progress, Time Limits, Supervision, and Candidacy
- 8 Thesis and Graduate Student Supervision
- 9 Graduation
- 10 Academic Appeals Policy
- 11 Policies and Guidelines

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.

1 Organization of the School of Graduate Studies

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

According to its constitution, the School of Graduate Studies has a council and is organized into [four divisions](#). Each of the departments, centres, institutes, schools, and Faculties (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

A graduate unit offers degree programs or graduate diplomas, courses, and research. It may be a department, centre, institute, school, or Faculty.

Each graduate student is enrolled in one of the units that offer graduate study. 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 unit's chair, dean, or director is responsible for the graduate affairs within the unit. The administrative duties may be delegated by the unit's chair or director, as appropriate.

1.4 Graduate Programs

Graduate programs are listed alphabetically in the [Programs by Graduate Unit](#) section of this calendar.

1.4.1 Degree Programs

A diverse range of both research-oriented and professional [degree programs](#) is offered at both the master's and doctoral levels.

1.4.2 Collaborative Specializations

[Collaborative specializations](#) (CSs) emerge 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 CS. On successful completion of the program, the student receives a transcript notation indicating completion of the collaborative specialization, in addition to the degree.

1.4.3 Combined Degree Programs

[Combined degree programs](#) (CDPs) allow 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.

1.4.4 Graduate Diploma Programs

Graduate diplomas may be offered at the master's, post-master's, and doctoral levels. They consist of approved graduate courses or other graduate academic activities appropriate to the diploma level. The University of Toronto offers graduate [diploma programs](#) in conjunction with a master's or doctoral degree and also graduate diplomas as a standalone program with direct admission.

1.4.5 Conjoint Programs

The University of Toronto and the [Toronto School of Theology](#), in accord with the Memorandum of Agreement between the two institutions, offer specific and approved conjoint programs, some of which are graduate degree programs. Students in a conjoint program are students at the University of Toronto; however, they are not registered at the School of Graduate Studies.

1.4.6 Joint Programs

A graduate joint degree program is a program of study offered by two or more universities, or equivalent institutions, in which successful completion of the requirements is confirmed by a single degree document.

1.4.7 Dual Degree Programs

A dual degree program is a program of study offered in partnership by the University of Toronto and an international peer university, or equivalent institution. In a dual degree program, a student's successful completion of the program requirements of two existing degree programs is conferred with two degree documents or parchments. Dual degree programs build on a strong academic rationale between the programs in the combination and provide a distinctive academic benefit to students. Dual degree programs are governed by a memorandum of agreement.

1.5 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:

1.5.1 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.

1.5.2 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.

1.5.3 Associate (Restricted) Members

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

1.5.4 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, dean, or director of the graduate unit.

2 Categories of Students

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 degree or diploma program in the School of Graduate Studies.

A student who has completed all requirements for the doctoral degree exclusive of thesis research is deemed to have achieved candidacy and will be designated as a "doctoral candidate" in the School of Graduate Studies.

2.1.1 Degree or Diploma Student Conditionally Registered

Admission conditions enable a graduate unit to offer admission, and in some cases even allow registration, conditional upon satisfying some outstanding admission requirement(s) such as conferral of admitting degree. 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 conditionally (i.e., conditional upon demonstrating satisfaction of one or more admission requirements) for a period not to exceed one academic session (four months). Applicants must hold a recognized degree with appropriate standing.

Failure to satisfy the condition by the registration deadline will result in the withdrawal of the offer of admission, at the request of the graduate unit.

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 or diploma. All special students must be enrolled in at least one graduate course; some may be enrolled in both undergraduate and graduate courses. Special students must submit an application for admission for each academic year of study.

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 or diploma. Full-time special students are enrolled in more than 1.0 full course equivalent (FCE) per session.

2.2.2 Special Student, Part-Time

Students wishing to take 0.5 or 1.0 full course equivalent (FCE) may be admitted as part-time special students. Part-time special students may take a maximum of 0.5 or 1.0 full course equivalent (FCE) in any session as approved by the graduate unit. Coursework does not count for degree/diploma credit.

2.3 Visiting Student

Visiting students are registered under special arrangements in the School of Graduate Studies and are not admitted to a degree. For more information, visit the [Exchange Opportunities: International and Domestic](#) web page.

Students registered at Canadian universities can apply through the Ontario Visiting Student (OVGS) program, the Canadian University Graduate Transfer Agreement (CUGTA), or the Canadian Association for Graduate Students (CAGS) research mobility agreement. For further information on all three programs, students should consult their home university.

Students registered at international universities can apply to conduct research as a visiting student through the International Visiting Graduate Student (IVGS) program. Students must

secure a U of T supervisor. They must also obtain approval from their home institution.

For all categories of visiting student, students must be registered in a graduate degree program at a recognized institution. Students in diploma or certificate programs, undergraduate students, and students on leave from their degree programs are not eligible.

3 Application for Admission to a Degree Program

3.1 Procedures

1. Application for admission should be submitted using the [SGS Online Admissions Application](#). The exceptions for using the SGS Admissions Application are:
 - all programs offered through the Rotman School of Management;
 - MScPT, MScOT, and the MHSc in Speech-Language Pathology, which participate in a common provincial application for professional rehabilitation medicine programs (ORPAS).
2. Applicants must pay a non-refundable application fee of \$120. Some graduate units have set higher application fees. Payment is made online at the time of application using a credit card. Application will not be processed until the application fee is received.
3. Applicants are required to provide a copy of their complete academic record issued directly from all of 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 encouraged to initiate their application early in the cycle to ensure timely submission, particularly where special documentation (and/or translation) and proof of English-language proficiency are required.

Most programs commence in Fall session. Some commence in Winter or Summer session. Applicants should consult the graduate unit to confirm program start times.

3.3 Acceptance to Program

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 approve to defer admission 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, the admission will be withdrawn and a new application must be submitted.

With the approval of the graduate unit, 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 Admission Regulations and Procedures

The University's admission regulations 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. The University also reserves the right to verify the accuracy of any documentation submitted as part of an application.

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. See [Degree Regulations](#) for further information.

4.1.1 Master's Programs

Minimum Requirements

1. An appropriate bachelor's degree with high academic standing from a recognized university, that has appropriate breadth and depth in a discipline deemed appropriate for the intended field of study.
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 the graduate unit.

4.1.2 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 in a discipline deemed appropriate for the intended field of study.
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 the graduate unit.

4.1.3 Other Doctoral Programs

Normally, an appropriate master's degree with high academic standing from a recognized university in a discipline deemed appropriate for the intended field of study is required. See appropriate graduate unit entry for details about specific minimum admission requirements.

4.1.4 Graduate Diploma Programs

Graduate diploma programs involve concurrent or standalone registration with a graduate degree program. Applicants to graduate diploma programs should complete the [SGS Online Admissions Application](#).

Minimum Requirements

1. A bachelor's degree in a discipline deemed appropriate for the intended field of study is an appropriate degree for a graduate diploma.
2. Other qualifications may apply, as specified by the graduate unit.

4.1.5 Special Students

Before applying, applicants should identify the courses they wish to take and obtain approval from the graduate unit offering the course. 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.

1. Full-time special students must have obtained an average grade equivalent to mid-B or better in the final year (or over senior courses) of an appropriate bachelor's degree program.
2. Part-time special students who are accepted with less than mid-B standing are not normally considered admissible to a master's degree at a later date.
3. At least two letters of reference are required for full-time special students.
4. Other qualifications as specified by the graduate unit.

4.2 Regulations and Procedures

4.2.1 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.

4.2.2 Eligibility of Students for Second Graduate Degree of Same Title

The University may confer upon a student a graduate degree having the same title as a previous degree, if that initial degree was obtained at a different institution. For students who already have obtained a University of Toronto degree, a second degree of the same name will not be conferred unless it is undertaken in a different field of study from the first.

4.2.3 Mature Students

Applicants who graduated five or more years ago but without achieving sufficiently high standing for admission to a graduate program may be considered for admission if, since graduation, they have done significant intellectual work and/or made a significant professional contribution that can be considered equivalent to a higher academic standing. This means that the mere passage of time in a profession is not sufficient. Graduate units must submit recommendations for admission to the School of Graduate Studies for approval.

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 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 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.

4.2.4 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 SGS 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.

4.2.5 Transfers

4.2.5.1 Master's to Doctoral

A student may be recommended for transfer from a master's program to a doctoral program. In such cases, the student will transfer to a five-year doctoral program with the years in the master's program being counted as part of the doctoral program. Courses may be excluded in the transfer. The total number of courses required for the doctoral program is the sum of the normal master's and doctoral course requirements, unless otherwise specified by the graduate unit. Where flexible-time is an approved option, a student may also be recommended for transfer to a flexible-time doctoral option with the years in the master's program being counted as part of the doctoral program. Such a transfer must occur within 24 months of initial registration.

4.2.5.2 Doctoral to Master's

Students transferring from the doctoral 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 School of Graduate Studies.

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 doctoral to the master's program will not be permitted to

transfer subsequently to the doctoral program within the same graduate unit unless approved by the School of Graduate Studies.

4.3 English-Language Proficiency

Students must be able to communicate effectively in English to study at the University of Toronto. 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 below. 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. Minimum scores are indicated; however, many graduate units require a higher score.

4.3.1 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

4.3.2 International English Language Testing System (IELTS)

Web: www.ielts.org

Required score: 7.0 (Academic) with at least 6.5 for each component.

4.3.3 Academic English Level 60

School of Continuing Studies University of Toronto

Web: <https://learn.utoronto.ca/english-language-program>

Required score: B

4.3.4 The Canadian Academic English Language (CAEL) Test, CE (Computer Edition)

Web: www.cael.ca

Required score: 70 minimum total with at least 60 in each part.

4.3.5 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

5 Structure of Academic Programs

5.1 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)

5.2 Academic Programs

Academic programs leading to graduate degrees and diplomas are defined by the units that offer them and by the degree regulations. Consult the [Degree and Diploma Programs by Graduate Unit](#) section of this calendar.

5.3 Program Length

Program length is established at the time of initial approval of the program. Program length refers to the period of time (in sessions or academic years) for an academically well-prepared student to complete all program requirements while registered full-time. The program length is the period of time upon which the minimum degree fee is based (for master's programs only).

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.

Actual time to complete a program may vary for individual students and across disciplines. Doctoral program length is established through the Doctoral Degree Regulations. All requirements for the degree must be completed within the time limit (see 5.5).

5.4 Period of Residence

Many programs specify a period of residence whereby students must be on campus full-time and consequently in geographical proximity 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. Exceptions to the residency requirement must be approved by the graduate unit.

5.5 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:

Doctoral	6 years
Direct-entry doctoral	7 years
Flexible-time PhD program option	6 to 8 years (depending on program)
Professional doctoral	5 to 6 years (depending on program)
Full-time master's	3 years (except for the MArch: 4 years; Dentistry MSc: 3 to 5 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.

6 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 a separate process from registration. It is the approved engagement by a student in a course or other academic activity or component of a program of study.

See the complete policy on [Association, Admission, and Registration](#).

6.1 Registration Policies and Procedures

6.1.1 Registration Procedures

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 [Sessional Dates](#). Students may access [registration instructions](#) from the SGS website and the graduate unit.

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 [ACORN](#) 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 such material does not override any other notification students receive about academic status and eligibility.

6.1.2 Full-Time Studies

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

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

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

A full-time student may be absent from the University for an extended period or may participate in a program offered by another university if, and only if, the student has received written permission from the graduate unit in which they are 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.

6.1.3 Extended Full-Time (EFT) Studies

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

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 regulations.
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 above.

6.1.4 Part-Time Studies

1. The option to undertake studies on a part-time basis is available in some master's programs.
2. A student enrolled in part-time studies may, over the course of each academic year, normally take 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 section [14.4 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. Time limits for part-time studies are outlined in section [14.4 Minimum Degree Fee](#).
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.

6.1.5 Flexible-Time PhD Studies

1. Some PhD programs are approved to offer flexible-time studies.
2. Students in a flexible-time PhD program option will register full-time during the first four years and will switch to part-time registration during subsequent years in the program.
3. Students are required to be registered for every successive session, including summers, following the

first session of registration unless granted a leave of absence.

4. The time limit, between six and eight years, will be established through the departmental regulations.
5. Transfers between the full-time PhD program and the flexible-time PhD program option are not permitted.

6.1.6 Summer Session Courses

Students enrolled in courses or engaging in research or project work in the summer must register for the Summer session. Doctoral, MSc, and MASc students are already registered for the Summer session when they first register in:

- September for the September-to-August period or
- January for the January-to-August period.

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 7 weeks.

For students enrolled in 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.

6.1.7 First Registration

Students beginning their degree programs normally register for the first time in the Fall session. In some cases, graduate units may give permission for new students to register for the first time in their program in the Winter or Summer session.

6.1.8 Continuity of Registration

Students in a thesis program (doctoral or master's) or in a coursework-only master's program 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.

6.1.8.1 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.

6.1.8.2 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.

6.1.8.3 Doctoral Students

All doctoral students must register continuously until all degree requirements have been fulfilled.

6.1.9 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 [Fee Regulations](#) section of this calendar.

6.1.10 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.

Re-registration requires approval from both the graduate unit and SGS. The program's normal requirements and time limits (as defined by regulation [5.5 Time Limit](#)) will apply to reinstated students as if they had been continuously registered; 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.

6.1.11 Extension of Time for Completion of Degree Requirements

6.1.11.1 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. If an extension request is made for a third and final extension, the student and the department must each provide confirmation that the degree requirements can be met within the time limits of the final extension. No registration beyond the extension period will be permitted.

6.1.11.2 Doctoral Students

In exceptional circumstances, a doctoral student who has not completed all the requirements for the degree within the time limit for the 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. If an extension request is made for a fourth and final extension, the student, the supervisor, and the department must each provide confirmation that the degree requirements can be met within the time limits of the final extension. No registration beyond the four-year extension period will be permitted.

6.1.12 Joint Educational Placement (JEP) for Doctoral Students

A Joint Educational Placement (JEP) is an opportunity for individual students to pursue their doctoral degree program under the joint supervision of faculty at the University of Toronto and a partner Canadian or international university. The JEP is intended to allow exceptional doctoral students to pursue research opportunities and acquire research experience in two institutions at an early stage in their doctoral studies.

At the time of application to the JEP, the applicant designates one of the participating 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*.

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

The academic and research program of a student enrolled in a JEP 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 with the parchment and transcript noting that the degree is "Awarded as a single degree under a Joint Placement arrangement (with the collaborator institution)" and may participate in a U of T convocation ceremony. When the University of Toronto is the collaborator institution, students who successfully complete the requirements of the program at U of T will receive a transcript with the notation that the degree has been "Awarded as a single degree under a Joint Placement arrangement with (the other institution). The partner institution may also issue a parchment.

For the JEP agreement template and additional information, visit the SGS web page on [Joint Educational Placement Students](#).

6.1.13 Dual Registration

A student in a master's program at this University who has been offered admission to a doctoral 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 doctoral studies and will be registered full-time in the doctoral and part-time in the master's program. Only the appropriate doctoral fees will be charged.
4. The period of dual registration will be either September 1 to December 31 or January 1 to April 30.

In order to receive credit for the doctoral program for the period as a dual registrant, the student must be recommended for the award of the master's degree by the deadlines in the [SGS Sessional Dates](#). Otherwise, the doctoral registration will be cancelled, no credit for the doctoral program 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.

Doctoral program 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 doctoral program 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 doctoral program.

6.1.14 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.

6.1.15 Leave Policy

Graduate students may apply to their graduate unit for a one-session to three-session leave during their program of study for:

1. 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. Normally, parental leave is 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. Students on an approved leave of absence may opt in to paying compulsory non-academic incidental fees and receive continued access to campus services offered by Student Life (Academic Success Centre, Career Centre, Centre for International Experience, Centre for Community Partnerships, Health and Wellness, Housing Services, Indigenous Student Services, Multi-Faith Centre, Student and Campus Community Development, etc.), Hart House, and the Faculty of Kinesiology & Physical Education during the leave of absence. Students on leave for parental or 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 [6.1.8.2 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 unit for approval. The form is then sent to the School of Graduate Studies for processing.

The time limit 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.

It is expected that leaves coincide with sessional start and end dates. In exceptional circumstances, students may request special arrangements, which require the approval of both the graduate unit and the School of Graduate Studies.

6.1.16 Withdrawal from a Graduate Program

A student may withdraw voluntarily from their program at any point. 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; the University determines fee rebates, if applicable. Should the student wish to return, they must reapply. An application for re-admission by a student who has withdrawn will be made in competition with all other applicants.

6.1.17 Graduate Courses and Other Academic Activities

See the guidelines on [Graduate Courses and Other Academic Activities](#).

6.1.17.1 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. Course codes may serve as markers for Other Academic Activities. See the guidelines on [Graduate Courses and Other Academic Activities](#) including Program Examinations.

If a course is not offered for more than five years, it becomes inactive; SGS will archive the course in ACORN. See the SGS guidelines for [De-activating/Archiving and Re-activating Graduate Courses](#).

6.1.17.2 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 using 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

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. Graduate units may offer modular courses which have enrolment deadlines that do not conform to the beginning and end of the sessions.

6.1.17.3 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.

6.2 Enrolment Policies and Procedures

6.2.1 Enrolment

Students enrol with their graduate units and arrange programs of study (courses, research topics, supervisors, etc.). Students should contact the graduate unit regarding enrolment procedures. Enrolment should be completed by the deadline noted in the [Sessional Dates](#).

Most formal classes and seminars in the:

- Fall session begin in the week of September following Labour Day
- Winter session begin during the first week of January
- Summer session 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 offered in any one year. Consult the graduate unit concerning course availability.

6.2.2 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 [ACORN](#), if the graduate unit permits access.

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

Sep. 21, 2020	Final date to add full-year and Fall session courses.
Oct. 26, 2020	Final date to drop Fall session courses without academic penalty.
Jan. 18, 2021	Final date to add Winter session courses.
Feb. 22, 2021	Final date to drop full-year and Winter session courses without academic penalty.
May 10, 2021	Final date to enrol in May-to-June or May-to-August session courses.
May 28, 2021	Final date to drop May-to-June F section courses without academic penalty.
Jun. 14, 2021	Final date to drop May-to-August session Y section courses without academic penalty.
Jul. 5, 2021	Final date to enrol in July-to-August courses.
Jul. 12, 2021	Final date to drop a July-to-August S section courses without academic penalty.

Students enrolled in coursework-only programs who drop all courses by the deadlines must withdraw from the program.

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

6.2.3 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. Students with long-term needs are encouraged to register with Accessibility Services.

Written requests, supported by a medical certificate or other appropriate evidence, must be submitted to the instructor or the graduate unit as soon as possible. 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.

6.2.4 Completion of Coursework and Grade Submission

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

Jan. 8, 2021	Coursework must be completed and grades submitted for Fall session courses.
May 14, 2021	Coursework must be completed and grades submitted for full-year and Winter session courses (except for extended courses). *For students receiving degrees at June convocation, grades must be submitted by April 16.
Jul. 9, 2021	Coursework must be completed and grades submitted for May-to-June F section courses.
Sept. 3, 2021	Coursework must be completed and grades submitted for 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.

6.2.5 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.

6.2.5.1 Petitions for Course Extensions

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.

6.2.5.2 Grounds for Course Extensions

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.

6.2.5.3 Deadlines for Course Extensions

If a graduate unit grants a petition for a course 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 14, 2021	Fall session (Y, H) courses
Sept. 3, 2021	Fall/Winter session (Y) and Winter session (Y, H) courses
Jan. 7, 2022	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 School of Graduate Studies.

6.2.5.4 Grade-Reporting Procedures

The graduate unit will assign the temporary course report of SDF (Standing Deferred) to a student on an approved coursework 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 in the subsequent session.

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 School of Graduate Studies. Grade and non-grade notations appear in transcripts and are governed by the *University Assessment and Grading Practices Policy*.

6.2.5.5 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.

6.2.6 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.

6.2.7 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.

6.2.8 Auditing a Graduate Course

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 following University of Toronto codes apply to auditors:

1. [Code of Student Conduct](#)
2. [Code of Behaviour on Academic Matters](#)

Further information about access, certificates of attendance, and fees for auditing may be obtained from Student Services at the School of Graduate Studies.

6.2.9 Transfer Credit and Exemptions

Transfer credit for graduate work completed in another program or as an SGS special student 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 SGS, that percentage may be exceeded by doctoral students.

In all cases, transfer credit arrangements for exchange program participants must be approved in advance by SGS.

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.

6.2.10 Credit/No Credit (CR/NCR)

Degree students in the School of Graduate Studies may not normally select any degree credits to be assessed on a Credit/No Credit basis. Graduate units may identify specific graduate programs in which students may elect to be assessed on a Credit/No Credit basis in specific courses on a limited basis. This information appears under the entry of the graduate unit offering the program.

Deadline

In graduate programs where this option is enabled, students can choose or remove this mode of assessment on ACORN; the deadline to do so is the last date to drop the relevant course without academic penalty. Once the deadline has passed, students may not reverse this decision.

Eligibility for CR or NCR

To achieve a status of CR (Credit), a student must achieve a final mark of at least B. . Marks below that will be assessed as NCR (No Credit).

Students taking a course on a CR/NCR basis will not be identified individually to the instructor teaching that course; they will be assessed in the same way as all other students in the course, i.e., will have the same assignments and tests and will be evaluated with the same expectations.

This option is not available to SGS non-degree students.

Note to graduating students: The CR/NCR option is only open to degree students. Once students have graduated, they become non-degree students and they may not complete courses on a CR/NCR basis, even if they enrolled in the course before their graduation. For example, if a student is graduating in June and they select the CR/NCR option for a Summer course, or if a student is graduating in November and they select the CR/NCR option for a Fall or Winter course, the CR/NCR option will be removed upon graduation and a refined letter grade will appear on the student's record.

The CR/NCR option cannot be selected for a course if there is an allegation of academic misconduct. If a student has specified the CR/NCR option for a course in which an academic offence has been committed, the CR/NCR option will be revoked and the refined letter grade will stand as the course grade.

Important Notes and Limitations of CR/NCR

The underlying mark of a course completed on a CR/NCR basis will not be released or reported in any way. However, the School of Graduate Studies cannot determine how an external body may read or interpret the CR/NCR on a transcript. If a specific mark may be required in a course for professional or graduate school applications or for other reasons in the future, students should not choose the CR/NCR option. Students may wish to seek advice of their Graduate Coordinator when considering the use of CR/NCR.

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

7.1 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 [Programs by Graduate Unit](#) 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 [Programs by Graduate Unit](#)) 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 of registration.

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.

7.2 Full-Time Students

Students must meet the full-time studies requirements to be in good academic standing . see General Regulations, section [6.1.1 Registration Procedures](#).

7.3 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 [Programs by Graduate Unit](#) 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.

7.4 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, the student must repeat the relevant course, or take 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.

7.5 Doctoral Students

7.5.1 Achieving Candidacy: Requirements and Time Limit

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.

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 Year 3 for all doctoral programs, except for the five-year doctoral 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 Year 4 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
Doctoral, four-year program	by end of Year 3
Doctoral, five-year program (direct-entry)	by end of Year 4
Flexible-time PhD program option	by end of Year 4
Professional doctoral program, full-time	by end of Year 3

Professional doctoral program, part-time	by end of Year 4
--	------------------

In exceptional circumstances, a student who has not met these requirements may be permitted to register in the program for up to 12 months (3 sessions) 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 School of Graduate Studies.

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 [Programs by Graduate Unit](#) section of this calendar.

7.5.2 Supervision and Satisfactory Progress

All doctoral students must 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 in which the student is registered 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) doctoral 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
Doctoral, four-year program	by end of first session in Year 2
Doctoral, five-year program (direct-entry)	by end of first session in Year 3
Flexible-time PhD program option	by end of first session in Year 2
Professional doctoral program, full-time	by end of first session in Year 2
Professional doctoral program, part-time	by end of first session in Year 3

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 their 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 8 Thesis and Graduate Student Supervision](#); [Degree Regulations, section 12 Doctoral Degrees](#); and specific program requirements in the [Programs by Graduate Unit](#) section.

8 Thesis and Graduate Student Supervision

8.1 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.

Students must choose a thesis topic for which the graduate unit in which they are registered is able to provide adequate supervision.

A student's choice of thesis topic, as well as their 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 chair, director, or dean in the graduate unit in which the student is registered.

8.2 Doctoral and Master's 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, director, or dean 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 and master's 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 [SGS Graduate Supervision Guidelines](#).

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 graduate student who believes that their graduate unit is not following the supervision guidelines may inform their graduate unit or 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 [SGS Graduate Supervision Guidelines](#), 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 who hold a graduate faculty membership;
2. if a co-supervisor is identified, must also hold a graduate faculty membership in the student's graduate unit;
3. 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
4. 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.

8.3 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, 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 SGS.
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 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 remotely), 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. SGS 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 nomination form; an abstract of the thesis, in English, 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 SGS. 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 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 must 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;

- b. or 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;
- b. or 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. The candidate's registration in the graduate program will be terminated.

1. 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.
2. 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.

3. 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.

For further details, students should consult the [Producing Your Thesis](#) section of the SGS website.

8.4 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.

The format of the submitted thesis must comply with the School of Graduate Studies guidelines.

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

All theses will be submitted to ProQuest, which in turn makes theses available for purchase on its ProQuest Dissertations and Theses Global Database and includes the catalogue records in its bibliographic services. Following submission to ProQuest, theses will be made openly available on TSpace, the University of Toronto's research repository, and submitted to the national thesis program at Library and Archives Canada.

Thesis submission initiates 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.

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.

8.4.1 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 [8.4 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 [8.3 Doctoral Final Oral Examination](#)).

8.4.2 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.

9 Graduation

9.1 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 master's 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. Students must graduate at the convocation immediately following the completion of their degree requirements.

9.2 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. SGS Student Services 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 (there is no ceremony) 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 [11.9 Access to Official Student Academic Records](#).

Graduation information is available at www.convocation.utoronto.ca.

10 Academic Appeals Policy

10.1 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 10.1.1) must be initiated within the student's home graduate unit unless the appeal relates to a course outside the graduate unit, in which case it must be initiated in the graduate unit in which the course was taken, with notification to the student's home graduate unit. In the case of collaborative specialization core courses, the appeal is pursued through the student's home graduate unit where representation from the collaborative specialization will be included in the constitution of an appeal committee or hearing.

10.1.1 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 10.3.3). 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.

10.2 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 SGS for advice and/or informal mediation. With the consent of both parties, a representative of SGS will serve as informal mediator, attempting to resolve the dispute or clarify issues. Timelines are not affected by mediation. Consultation with SGS at an early stage is encouraged.

In cases where SGS 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.

10.3 Steps

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

10.3.1 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/chair/dean of the graduate unit.

10.3.2 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/chair/dean in every graduate unit. This form must be completed and delivered to the chair/dean of the graduate unit 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 their 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/dean of the graduate unit regarding the merits of the appeal. The chair/dean of the graduate unit will then render the department-level appeal decision. GDAAC guidelines for chairs/deans are made available to all parties in an appeal.

10.3.3 Step 3: Appeal to GAAB

1. The student may appeal the decision of the chair/dean of the graduate unit by filing a Notice of Appeal to the SGS Graduate Academic Appeals Board (GAAB) within eight weeks of the decision of the chair/dean of the graduate unit.
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.

10.3.4 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	Step	Timeline for Decision/Action by University Body at Each Stage
See Note A below	See Note B below	See Note C below
	1. Informal a. Student to instructor b. Student to graduate coordinator /chair/dean	
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 Doctoral 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/dean b. 8 weeks from written notification of failure of the Final Doctoral 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 Doctoral Oral Examination or termination of registration in a graduate program.	8 weeks from filing of Notice of Appeal to GAAB ²
90 days from decision of GAAB ²	4. Governing Council Appeal	N/A

	Notice of Appeal to GCAAC ³	
--	--	--

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 SGS 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

11 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](#) on the SGS website.

Furthermore, University of Toronto-wide policies affecting students are posted on the [Governing Council](#) website.

11.1 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.

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.

See the full text of the [University Assessment and Grading Practices Policy](#).

11.2 Academic Continuity Policy

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.

See the full text of the [Policy on Academic Continuity](#).

11.3 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.

11.4 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. For details and further information, visit www.research.utoronto.ca.

11.5 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*.

See the full text of the [Policy on Academic Sanctions for Students Who Have Outstanding University Obligations](#).

11.6 Code of Behaviour on Academic Matters

The *Code of Behaviour on Academic Matters* addresses the responsibilities of all students and faculty to the integrity of the teaching and learning experience.

See the full text of the [Code of Behaviour on Academic Matters](#).

11.7 Policy on Sexual Violence and Sexual Harassment

The *Policy on Sexual Violence and Sexual Harassment* protects students, faculty, and staff from sexual harassment within the University community.

See the full text of the [Policy on Sexual Violence and Sexual Harassment](#).

11.8 Code of Student Conduct

Non-academic offences are defined in the University's *Code of Student Conduct*. The *Code* addresses offences, procedures, interim conditions and measures, and sanctions.

See the full text of the [Code of Student Conduct](#).

11.9 Access to Official Student Academic Records

Academic records of students are ultimately the property of the University. 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.

See the full text of the [Guidelines Concerning 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.

11.10 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.

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

See the full text of the [Transcript Policy](#).

11.11 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.

Students are responsible for maintaining and advising the University . . . via the University's student information system (currently ACORN) — 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.

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](#).

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.

See the full text of the [Policy on Official Correspondence with Students](#).

11.12 Policy on the Framework on Off-Campus Safety

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.

See the full text of the [Policy on the Framework on Off-Campus Safety](#).

Students are also encouraged to review the [Guidelines on Safety in Field Research](#) produced by the Office of Environmental Health and Safety.

11.13 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.

See the full text of the [Appropriate Use of Information and Communication Technology](#).

11.14 Statement on Human Rights

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

See the full text of the [Statement on Human Rights](#).

11.15 University-Mandated Leave of Absence Policy

The University is committed to providing students with the opportunity to pursue their educational goals. It is also committed to maintaining a safe environment for study and work. Pursuant to the University's commitment to providing supports and accommodations for students and its obligation under the *Ontario Human Rights Code*, the University provides accommodative resources through a number of services, each involving specialized attention by experienced and qualified staff to the specific needs of students.

In most circumstances, these resources, combined with the engagement and cooperation of the student, will allow a student to obtain their educational goals. However, on a small number of occasions, this approach may not be successful, or a student, for whatever reason, may not engage with the supportive resources, and the result may be an impact on the health and safety of the student or others, or on the ability of the student to engage in the essential elements of the educational activity. In these infrequent circumstances, the potential application of the *Code of Student Conduct* will not be suitable, since it entails a disciplinary approach. Similarly, it may not be consistent with the duty to accommodate to merely let the student confront significant negative academic consequences in these situations. This Policy, therefore, sets out additional options to better reflect the needs and the situation of the student.

This Policy will be applied in a manner that fully complies with the *Ontario Human Rights Code* including (where applicable)

the duty to provide reasonable accommodation to the point of undue hardship.

See the full text of the [University-Mandated Leave of Absence Policy](#).

Degree Regulations

12 Doctoral Degrees
13 Master's Degrees

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 7 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 with a link to details contained in the graduate unit entry. See [Programs by Graduate Unit](#).

12 Doctoral Degrees

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

1. [Doctor of Philosophy \(PhD\)](#)
2. [Doctor of Education \(EdD\)](#)
3. [Doctor of Juridical Science \(SJD\)](#)
4. [Doctor of Musical Arts \(DMA\)](#)
5. [Doctor of Nursing \(DN\)](#)

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

12.1 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 should include a statement to that effect in their calendar entries. Where students are not able to complete all degree requirements within four years, all requirements for the degree must be completed within six years from first enrolment.

12.1.1 Admission Requirements

12.1.1.1 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 for 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 4 of General Regulations, [Admission Regulations and Procedures](#).

12.1.1.2 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 a discipline deemed appropriate for the intended field of study. Students who hold a master's degree in a discipline deemed not appropriate or require further preparation would normally be admitted to this program.

12.1.1.3 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 [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 "practising 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.

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 to be professionally engaged while registered in the program.

12.1.2 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 7 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.

12.1.2.1 Four-Year PhD Program

Most PhD applicants 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. Where students are not able to complete all degree requirements within four years, all requirements for the degree must be completed within six years from first enrolment.

12.1.2.2 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 [12.1.1.2 Five-Year PhD Program \(Direct-Entry\) 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 Year 1 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.

12.1.2.3 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 practising 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 [12.1.1.3 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 unit offering a flexible-time PhD program 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 graduate unit practice. 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.

12.1.2.4 Approval

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

12.1.2.5 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.

12.1.2.6 Language Requirement

Individual graduate units may require that students have an adequate knowledge of such language or languages, other than English, in order to complete 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 appropriate certificate of language competence is recorded in the official student file.

12.1.2.7 Achieving Candidacy: Requirements and Time Limit

See General Regulations, section 7 on [Good Academic Standing](#) for detailed requirements.

12.1.2.8 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. No language other than English or French may be used for the conduct of Doctoral Final Oral Examinations.

See also General Regulations sections [8.2 Doctoral and Master's Supervision](#) and [8.4 Submission of Theses](#).

12.1.2.9 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 [8.3 Doctoral Final Oral Examination](#) for detailed requirements and deadlines.

12.1.2.10 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 [6.1.11.2 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 approved extension period may not enrol further.

For flexible-time PhD program option, see section [12.1.1.3 Flexible-Time PhD Program Option](#).

12.2 Doctor of Education (EdD)

The EdD program is offered in a variety of programs in multiple graduate units within the Ontario Institute for Studies in Education (OISE). 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 7 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 [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 [8.3 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 [6.1.11 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.

12.2.1 Admission Requirements

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 for the intended field of study.

A student may be enrolled in one of the following graduate units:

- [Applied Psychology and Human Development](#)
- [Leadership, Higher and Adult Education](#)
- [Social Justice Education](#)

12.2.2 Program Requirements

For specific program and registration requirements, see the [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.

1. Students in some graduate programs may be required to take a comprehensive examination. Consult the specific graduate unit entry for details.
2. 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.
3. All requirements for the EdD must be completed within six years of first enrolment as an EdD student.

12.2.3 EdD Thesis (Dissertation in Practice)

The EdD candidate, through the graduate unit, shall present a thesis (dissertation in practice), which is the culminating component of the Doctor of Education degree. The thesis (dissertation in practice) shall include an identification and investigation of a problem of practice, the application of theory and research to the problem of practice, and a design for action to address the problem of practice. It must be the result of original research undertaken while the candidate is a registered student.

A thesis (dissertation in practice) should have a coherent topic, describe a challenge in educational practice, include a review or research literature and/or policy analysis related to the challenge, as well as the investigation of the challenge and/or possible solution(s) to address the challenge. It should have direct implications for policy and/or practice and uphold common standards of high quality (well written, conceptualized and structured, rigorous and coherent approach to methodology, yield generative impacts in the field). The thesis (dissertation in practice) can take two formats: (1) a traditional format where, similarly to a traditional doctoral thesis, the research problem is a complex problem of practice and the inquiry is presented in an authored, multi-chapter document; (2) a mixed format where the problem of practice and related review and analysis of applicable scholarship and policy is presented in a written research document combined with a practical component, which may take form of, for example, school/community improvement project, organization restructuring plan, policy or guideline, installation, film or website, or other endeavour relevant to the field.

The thesis (dissertation in practice) should normally be written/produced 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 dissertation in practice in French.

See General Regulations sections [8.2](#) and [8.4](#).

12.2.4 Final Oral Examination

All students must defend the thesis (dissertation in practice) at a Final Oral Examination organized by the graduate unit with the cooperation of SGS. See General Regulations section [8.3](#) [Doctoral Final Oral Examination](#) for detailed requirements and deadlines.

12.3 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 7 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 [8.3](#) [Doctoral Final Oral Examination](#) for detailed requirements and deadlines.

12.4 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 7 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 [8.3](#) [Doctoral Final Oral Examination](#) for detailed requirements and deadlines.

12.5 Doctor of Nursing (DN)

This degree is offered in the Lawrence S. Bloomberg Faculty of Nursing. Admission and program requirements for the degree program are outlined in the [Nursing Science](#) entry in the Degree and Diploma Programs by Graduate Unit section. All DN students are subject to rules and regulations outlined in the General Regulations, including section 7 on [Good Academic Standing](#) requirements, in addition to the degree requirements specified in the Lawrence S. Bloomberg Faculty of Nursing 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 [8.3](#) [Doctoral Final Oral Examination](#) for detailed requirements and deadlines.

13 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 7 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 a chart containing degrees specific to one graduate program.

13.1 Degrees in Multiple Graduate Programs

13.1.1 Master of Arts (MA)

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

13.1.1.1 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 normal length of program may be extended.

13.1.1.2 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) or 6 years (part-time) from first enrolment.

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

13.1.2 Master of Science (MSc)

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

13.1.2.1 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.

13.1.2.2 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) or 6 years (part-time) from first enrolment.

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

13.1.3 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.

13.1.3.1 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 Studies](#)
- [Biomedical Engineering](#)
- [Chemical Engineering and Applied Chemistry](#)
- [Civil and Mineral Engineering](#)
- [Earth Sciences](#)
- [Electrical and Computer Engineering](#)
- [Materials Science and Engineering](#)
- [Mechanical and Industrial Engineering](#)

13.1.3.2 Program Requirements

1. Under the direction of a graduate unit, a student must pursue a program of 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) or 6 years (part-time) from first enrolment.

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

13.1.4 Master of Education (MEd)

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

13.1.4.1 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. Normally, at least one year of relevant, successful, professional experience is required.
4. A student may be enrolled in one of the following graduate units:
 - [Applied Psychology and Human Development](#)
 - [Curriculum, Teaching and Learning](#)
 - [Leadership, Higher and Adult Education](#)
 - [Social Justice Education](#)

13.1.4.2 Program Requirements

The minimum program requirements for the MEd degree are as follows:

1. Under the direction of a graduate unit, a student must pursue a program of advanced study approved by the graduate unit, which in addition to coursework may include a major research paper or a comprehensive examination requirement. Each individual graduate unit calendar entry specifies the options available for each MEd degree.

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

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

13.1.5 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.

13.1.5.1 Admission Requirements

- 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 Studies](#)
- [Biomedical Engineering](#)
- [Chemical Engineering and Applied Chemistry](#)
- [Civil and Mineral Engineering](#)
- [Electrical and Computer Engineering](#)
- [Materials Science and Engineering](#)
- [Mechanical and Industrial Engineering](#)

13.1.5.2 Program Requirements

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

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

13.1.6 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 unit entry for details.

- [Biomedical Engineering](#)
- [Health Policy, Management and Evaluation](#)
- [Laboratory Medicine and Pathobiology](#)
- [Medical Science](#)
- [Speech-Language Pathology](#)
- [Translational Research in the Health Sciences](#)

13.2 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 vary and are outlined in the applicable entry in the [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 7 on [Good Academic Standing](#) requirements, in addition to the degree requirements specified in the relevant graduate unit entry.

The degree names are listed alphabetically; visit the relevant graduate unit web page where the degree program is described.

Degree Name	Degree Abbreviation	Graduate Unit
Global Professional Master of Laws	GPLLM	Law
Master of Architecture	MArch	Architecture, Landscape, and Design
Master of Biotechnology	MBiotech	Management & Innovation
Master of Business Administration	MBA	Management, Rotman School of
Master of Engineering in Cities Engineering and Management	MEngCEM	Civil and Mineral Engineering
Master of Environmental Science	MEnvSc	Physical and Environmental Sciences
Master of Finance	MF	Management, Rotman School of
Master of Financial Economics	MFE	Financial Economics
Master of Financial Insurance	MFI	Statistical Sciences
Master of Financial Risk Management	MFRM	Management, Rotman School of
Master of Forensic Accounting	MFAcc	Management & Innovation
Master of Forest Conservation	MFC	Forestry
Master of Global Affairs	MGA	Global Affairs and Public Policy

Master of Health Informatics	MHI	Health Policy, Management and Evaluation
Master of Industrial Relations and Human Resources	MIRHR	Industrial Relations and Human Resources
Master of Information	MI	Information
Master of Landscape Architecture	MLA	Architecture, Landscape, and Design
Master of Laws	LLM	Law
Master of Management and Professional Accounting	MMPA	Management & Innovation
Master of Management of Innovation	MMI	Management & Innovation
Master of Mathematical Finance	MMF	Mathematical Finance
Master of Museum Studies	MMSt	Information
Master of Music	MMus	Music
Master of Nursing	MN	Nursing Science
Master of Professional Kinesiology	MPK	Kinesiology
Master of Public Health	MPH	Public Health Sciences
Master of Public Policy	MPP	Global Affairs and Public Policy
Master of Science in Applied Computing	MScAC	Computer Science
Master of Science in Biomedical Communications	MScBMC	Medical Science
Master of Science in Community Health	MScCH	Public Health Sciences
Master of Science in Forestry	MScF	Forestry
Master of Science in Occupational Therapy	MScOT	Occupational Science and Occupational Therapy
Master of Science in Pharmacy	MScPhm	Pharmaceutical Sciences
Master of Science in Physical Therapy	MScPT	Physical Therapy
Master of Science in Planning	MScPI	Geography and Planning
Master of Science in Sustainability Management	MScSM	Management & Innovation
Master of Social Work	MSW	Social Work
Master of Studies in Law	MSL	Law
Master of Teaching	MT	Curriculum, Teaching and Learning
Master of Urban Design	MUD	Architecture, Landscape, and Design
Master of Urban Design Studies (this program has closed)	MUDS	Geography and Planning
Master of Urban Innovation	MUI	Management & Innovation

Master of Visual Studies	MVS	Architecture, Landscape, and Design
--------------------------	-----	---

Fee Regulations

14.1 Schedule of Fees

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

14.2 Fees and Registration

Students are informed of fees payable online through ACORN (www.acorn.utoronto.ca).

University of Toronto students normally pay tuition fees at a branch of a financial institution in Canada. Students wishing to make a fee payment from outside of Canada may choose one of the fee payment options found on the [Student Accounts website](#). Holders of certain scholarships, awards, research assistantships, teaching assistantships, or loans may request to register without payment through their graduate unit.

Students are considered to be registered as soon as they have paid academic and incidental fees or have an approved request to register without payment 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.

14.3 Academic Fees Structure

Because the course of study in many graduate units is program/student specific 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 5.3 Program Length](#)). This period establishes the minimum degree fee that must be paid before graduation.

14.4 Minimum Degree Fee

14.4.1 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.

14.4.2 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 student's convocation. 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.

14.4.3 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.

14.4.4 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.

14.5 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.

14.6 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.

14.7 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.

14.8 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 6.1.15 Leave Policy](#)) do not pay Summer session fees.

14.9 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.

14.10 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 6.1.11 Extension of Time for Completion of Degree Requirements](#).

14.11 Special Students

Full-time special students pay the full academic fee per session. 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 the [Student Accounts website](#).

14.12 International Students

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](#).

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.

14.13 Incidental Fees

Compulsory incidental fees are charged for the Graduate Students' Union, Health Services, Hart House, the Athletic Centre, and other student services. See the University's [Policy for Compulsory Non-Academic Incidental Fees](#).

14.14 Minimum Required Payment

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.

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

Students should check [ACORN](#) for account balances and details to avoid service charges.

14.15 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 [ACORN](#) for account balances and details to avoid service charges.

14.16 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.

14.17 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 are required to register for the Fall session and pay the appropriate fees.

14.18 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 by the 15th day of the month. Incidental and ancillary fees will be charged per session and are not pro-rated monthly.

14.19 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.

14.20 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 6.1.10 Failure to Register](#).

14.21 Outstanding Fees and Charges

See [General Regulations section 11.5 Policy on Academic Sanctions for Students Who Have Outstanding Obligations to the University](#).

14.22 Receipts for Income Tax

Tuition Fee Certificates are available online from [ACORN](#).

14.23 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 [ACORN](#) or at the University of Toronto Transcript Centre, 172 St. George Street, Toronto, Ontario M5R 0A3.

Financial Support

15.1 Graduate Funding

The University of Toronto gives high priority to graduate financial support. For doctoral students in the funded cohort, graduate units provide base funding at the beginning of each year. Students in professional-stream graduate programs typically self-fund their education. Students may 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 [Awards and Funding](#) section of the SGS website.

Students are encouraged to contact their graduate unit or the SGS Graduate Awards Office for information about financial assistance.

15.2 Admission Awards

SGS administers a number of awards to meritorious incoming 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 admission awards, visit the [Admission Awards](#) section of the SGS website.

15.3 Graduate Awards

SGS administers many awards from sources internal and external to the University of Toronto (e.g., awards established through SGS, federal, provincial, and 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 identified in the [Awards](#) section of the SGS website.

15.4 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 Awards](#) section of the SGS website.

15.5 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](#). Find out more about [provincial loans](#). Student who are eligible

for government loans may also qualify for the [University of Toronto Advance Planning for Students \(UTAPS\)](#) grant.

15.6 Teaching and Research Assistantships

Some graduate units provide teaching and/or research assistantship opportunities.

Teaching assistants may spend up to 10 hours per week on such teaching tasks as 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.

15.7 SGS Financial Aid and Advising Programs

Financial advising is available through SGS to assist students with managing educational expenses, budgeting, and planning. The financial advisor 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 advising is confidential, free of charge, and available in person, by email, or phone. Visit the [Financial Aid and Advising](#) 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
63 St. George Street
Toronto, Ontario M5S 2Z9
Canada

Telephone: 416-946-0808
Email: graduate.awards@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:

- Degree and diploma programs by graduate unit
- Combined degree programs
- Collaborative specializations

SGS comprises approximately 80 graduate units, 130 combined degree programs, and 40 collaborative (interdisciplinary) specializations.

Within each program type, entries are listed alphabetically with an introduction (including overview and contact), a list of programs offered (including admission and program requirements), and courses.

For further details about a program, visit the graduate unit's website, listed in the contact information.

Degree and Diploma Programs by Graduate Unit

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

Aerospace Studies

Aerospace Studies: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Aerospace Science and Engineering

MASc

- Emphases:
 - Aerial Robotics;
 - Robotics;
 - Sustainable Aviation;
 - Sustainable Energy

MEng

- Emphases:
 - Advanced Manufacturing;
 - Aerial Robotics;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Robotics;
 - Sustainable Aviation;
 - Sustainable Energy

PhD

- Emphases:
 - Aerial Robotics;
 - Robotics;
 - Sustainable Aviation;
 - Sustainable Energy

Overview

Aerospace science and engineering is a cross-disciplinary and multidisciplinary field that allows exploration of the broadest and most fascinating fields of engineering, areas that capture the imagination and encourage exploration beyond our terrestrial existence. The University of Toronto Institute for Aerospace Studies (UTIAS) is Canada's leader for education and research in aerospace engineering, focusing on the technical fields needed to design aircraft and spacecraft. Faculty perform research in the following areas:

- Aeronautics: Aircraft design, systems, and control
- Experimental methods: Laser diagnostics, structural/material analysis, field testing of robotics and aircraft
- Flight simulation: Full motion-based flight simulation with virtual reality capability
- Fluid dynamics: Flow of gasses over aircraft and in engines
- Numerical methods: Computer modeling for fluid flows, structures, design, and optimization
- Orbital mechanics: Satellite/spacecraft dynamics and control

- Propulsion systems: Jet and rocket engines, turbomachinery, combustion science
- Robotics and autonomous systems: Ground, air and space-based systems
- Spacecraft design and construction: Design, construction, and launch of satellites
- Structures and materials: Structural design and optimization, material testing.

Much of this research falls into three main themes:

- Reducing the environmental impact of aviation
- Aerial robotics, drones and unmanned aerial vehicles
- Autonomous systems for space exploration.

Contact and Address

Web: www.utias.utoronto.ca

Telephone: (416) 667-7700

Fax: (416) 667-7799

University of Toronto Institute for Aerospace Studies
4925 Dufferin Street
Toronto, Ontario M3H 5T6
Canada

Aerospace Studies: Graduate Faculty

Full Members

Barfoot, Tim - BASc, PhD
Chaudhuri, Swetaprovo - BE, PhD
D'Eleuterio, Gabriele - BASc, MASc, PhD
Damaren, Christopher - BASc, MASc, PhD (**Director**)
Davis, James - BASc, MASc, PhD
Ekmekci, Alis - BS, MS, PhD
Emami, M.R. - BSc, MSc, PhD
Gottlieb, James - BSc, MSc, PhD
Grant, Peter - BASc, MASc, PhD
Groth, Clinton - BASc, MASc, PhD
Gulder, Omer - BSc, MSc, PhD
Kelly, Jonathan - BSc, MS, MSc, PhD
Lavoie, Philippe - BSE, MSc, PhD (**Associate Director, Research**)
Liu, Hugh - BSc, MASc, PhD
Nair, Prasanth - BTech, MTech, PhD (**Associate Director, Graduate Studies**)
Schoellig, Angela - MSc, MSc, PhD
Steeves, Craig - BA, BASc, PhD
Steinberg, Adam - BASc, MSc, PhD
Waslander, Steven - BSE, MS, PhD
Yano, Masayuki - BS, SM, PhD
Zee, Robert - BASc, MASc, PhD
Zingg, David - BASc, MASc, PhD

Members Emeriti

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

Aerospace Studies: Aerospace Science and Engineering: MASc

Master of Applied Science

Program Description

The MASc degree is a research-based program focused on the completion of a research thesis. The MASc is considered to provide basic training in research for students subsequent to an undergraduate program. Under the direction of a faculty supervisor, students will select a research topic, perform experiments, computation, or analysis relevant to the topic, and report their results in a thesis. Upon completion of the thesis, students will be prepared for further academic research or employment in industry, including in research and development settings. Top students may have the opportunity to transfer directly to the PhD program after their first year of MASc studies.

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 appropriate four-year undergraduate degree in engineering, mathematics, physics, or chemistry from a recognized university.

Program Requirements

- **Coursework** to be completed in Year 1. Students must complete a minimum of **2.5 full-course equivalents (FCEs)** (five half courses) as follows:
 - All courses must be technical.
 - At least half of the required FCEs must be courses offered at UTIAS.
 - Complete AER 1800H Research Seminar in Aerospace Science and Engineering (0.5 FCE).
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's registration.
 - Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 2.5 FCEs.
- Complete the non-credit course JDE 1000H *Ethics in Research* (0.0 FCE).
- Attend a total of **12 approved seminars**.
- Have **research** performance assessed by a Research Assessment Committee (RAC), which includes the student's supervisor. For students making excellent research progress, the RAC may recommend that a student be considered for direct transfer to the PhD program.
- Write a **thesis** based on research performed during the period of registration for the MASc based on a topic selected in consultation with the student's supervisor.
- Present a **seminar on the student's research** at the UTIAS Departmental MASc Seminar (DMS).
- Students have the option of completing an emphasis in Aerial Robotics; Robotics; Sustainable Aviation; or

Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years full-time

Aerospace Studies: Aerospace Science and Engineering: MEng

Master of Engineering

Program Description

The Master of Engineering (MEng) is a course-based program designed to lead to employment in the aerospace industry. Students select from the wide range of UTIAS courses, as well as courses offered by other University of Toronto departments, to create a personalized curriculum. Students can also opt to follow one of several emphases, which provide more concentrated teaching in a specific area, and which are recorded on the student's transcript.

The MEng program can be taken on a full-time, extended full-time, or part-time basis. Transfer between the full-time, extended full-time, and part-time options is not permitted after registration. The default registration is the extended full-time option.

Full-Time Option

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 appropriate bachelor of applied science degree in engineering, or an equivalent four-year degree from a recognized undergraduate engineering program.

Program Requirements

- **Coursework.** Completion of **5.0 full-course equivalents (FCEs)** (10 half courses) as follows:
 - A minimum of seven half courses (3.5 FCEs) must be technical.
 - A minimum of half the courses must be offered at UTIAS.
 - A maximum of three 500-level courses (1.5 FCEs) is permitted.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's registration.

- Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 5.0 FCEs. A maximum of 5.5 FCEs may be taken; permission must be granted by the graduate office to exceed 5.0 FCEs.
- Students must complete all the required courses within three sessions (one year).
- Once students are registered, transfer between the full-time, extended full-time, or part-time option is not permitted.
- Students have the option of completing an emphasis in Advanced Manufacturing; Aerial Robotics; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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.
- An appropriate bachelor of applied science degree in engineering, or an equivalent four-year degree from a recognized undergraduate engineering program.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** (10 half courses).
 - A minimum of seven half courses (3.5 FCEs) must be technical.
 - A minimum of half the courses must be offered at UTIAS.
 - A maximum of three 500-level courses (1.5 FCEs) is permitted.
 - A maximum of three half courses (1.5 FCEs) may be taken in any session.
 - A maximum of six half courses (3.0 FCEs) may be taken in any academic year.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's registration.
 - Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 5.0 FCEs. A maximum of 5.5 FCEs may be taken; permission must be granted by the graduate office to exceed 5.0 FCEs.
 - Students must complete all the required courses within six sessions (two years).

- Once students are registered, transfer between the full-time, extended full-time, or part-time option is not permitted.
- Students have the option of completing an emphasis in Advanced Manufacturing; Aerial Robotics; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Part-Time Option

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 appropriate bachelor of applied science degree in engineering, or an equivalent four-year degree from a recognized undergraduate engineering program.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** (10 half courses).
 - A minimum of seven half courses (3.5 FCEs) must be technical.
 - A minimum of half the courses must be offered at UTIAS.
 - A maximum of three 500-level courses (1.5 FCEs) is permitted.
 - A maximum of two half courses (1.0 FCE) may be taken in any session.
 - A maximum of four half courses (2.0 FCEs) may be taken in any academic year.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's registration.
 - Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 5.0 FCEs. A maximum of 5.5 FCEs may be taken; permission must be granted by the graduate office to exceed 5.0 FCEs.
 - Students must complete all the required courses within nine sessions (three years).
- Once students are registered, transfer between the full-time, extended full-time, or part-time option is not permitted.
- Students have the option of completing an emphasis in Advanced Manufacturing; Aerial Robotics; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Robotics; Sustainable Aviation; or Sustainable Energy as part of their

degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

Aerospace Studies: Aerospace Science and Engineering: PhD

Doctor of Philosophy

Program Description

The Doctor of Philosophy degree is a research-based program leading to the production of a research thesis. Doctoral research at UTIAS is expected to be internationally recognized for its originality, rigour, and importance. Supervised by a faculty member, students select a research topic, develop a plan to address the topic, and implement this plan, leading to a major research thesis and contributions to the academic literature. This is the pinnacle of academic achievement, and holders of the PhD are well prepared for academic positions and leadership roles in industrial research and development.

Applicants may enter the PhD program via one of two routes: 1) following completion of an MASc degree in engineering, mathematics, physics, or chemistry; 2) transfer from the University of Toronto MASc program. The program can also be taken on a flexible-time basis.

PhD Program

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.

Program Requirements

- Students must maintain **full-time, continuous registration** for every session, including the Summer session, until all degree requirements are completed.
 - Students starting with an MASc degree must spend a minimum of two years in the PhD program.
 - Students with an MASc in a discipline relevant to the field of PhD study are expected to complete the PhD program in less than four years.

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** (four half courses) in Years 1 and 2.
 - All courses must be technical.
 - At least half of the required FCEs must be courses offered at UTIAS.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's candidacy.
 - Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 2.0 FCEs.
- Students must complete the non-credit course JDE 1000H *Ethics in Research* (0.0 FCE) (a half-day workshop).
- Students must attend a total of **24 approved seminars**.
- Students undertake a program of research under the guidance of a Doctoral Examination Committee (DEC), which includes the student's supervisor and two other UTIAS professors. The DEC shall:
 - ascertain the suitability of the student for advanced research
 - assess the thesis topic
 - conduct formal reviews of the student's thesis progress at least once per year; unsatisfactory progress may result in the termination of the student's registration)
 - determine whether a student qualifies as a candidate for the PhD degree at the second DEC meeting (qualifying DEC), approximately 1.5 years after program start
 - provide the first assessment of the PhD thesis.
- Students must complete a **thesis** based upon research carried out during the period of registration for the PhD degree.
- Students must present the thesis work at a seminar at the UTIAS **Departmental Doctoral Seminar (DDS)**.
- Students must defend the thesis at the **Doctoral Final Oral Examination** pursuant to the [SGS Degree Regulations](#).
- Students must prepare at least one **formal manuscript for publication** in a refereed journal or refereed conference proceedings.
- Students have the option of completing an emphasis in Aerial Robotics; Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Students who have achieved excellent performance in the MASc program at UTIAS at the end of Year 1 are recommended to transfer directly into the PhD program under the same supervisor. Approval for transfer is based on the student's research ability, research progress during Year 1, and academic standing.

Program Requirements

- Students must maintain **full-time, continuous registration** for every session, including the Summer session, until all degree requirements are completed.
 - Students transferring directly from the MASc program must spend a minimum of three years in the program from the date of initial MASc registration.
 - Students are expected to complete the PhD program in less than five years.
- Coursework.** Students must complete a total of **3.5 full-course equivalents (FCEs)** as follows:
 - 2.5 FCEs already completed during the MASc program.
 - A minimum of 1.0 FCE (two half courses) in the PhD program.
 - At least half of the required FCEs must be courses offered at UTIAS.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's registration.
 - All required courses must be completed in the first two years of the program, starting from the initial registration in the MASc program.
- Students must complete the non-credit course JDE 1000H *Ethics in Research* (0.0 FCE) (a half-day workshop).
- Students must attend a total of **24 approved seminars**.
- Students undertake a program of research under the guidance of a Doctoral Examination Committee (DEC), which includes the student's supervisor and two other UTIAS professors. The DEC shall:
 - ascertain the suitability of the student for advanced research
 - assess the thesis topic
 - conduct formal reviews of the student's thesis progress at least once per year; unsatisfactory progress may result in the termination of the student's registration
 - determine whether a student qualifies as a candidate for the PhD degree at the second DEC meeting (qualifying DEC), approximately 1.5 years after program start
 - provide the first assessment of the PhD thesis.
- Students must present the thesis work at the UTIAS **Departmental Doctoral Seminar (DDS)**.
- Students must defend the thesis at the **Doctoral Final Oral Examination** pursuant to the [SGS Degree Regulations](#).
- Students must prepare at least **one formal manuscript for publication** in a refereed journal or refereed conference proceedings.
- Students have the option of completing an emphasis in Aerial Robotics; Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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.
- Applicants must have a four-year undergraduate degree in engineering, mathematics, physics, or chemistry.
- 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.

Program Requirements

- Students must maintain **full-time, continuous registration** for every session, including the Summer session, until all degree requirements are completed.
 - Students must spend a minimum of three years in the direct-entry PhD program.
 - Students are expected to complete the direct-entry PhD program in less than five years.
- Coursework.** Students must complete a total of **3.5 full-course equivalents (FCEs)** as follows:
 - At least half of the required FCEs must be courses with AER or ROB designators.
 - Students must achieve at least a B- average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's candidacy.
 - All required courses must be completed in the first two years of the program.
 - All courses must be technical.
- Students must complete the non-credit course JDE 1000H *Ethics in Research* (0.0 FCE) (a half-day workshop).
- Students must attend a total of **24 approved seminars**.
- Students must undertake a program of research under the guidance of a Doctoral Examination Committee (DEC), which includes the student's supervisor and two other UTIAS professors. The DEC shall:
 - Ascertain the suitability of the student for advanced research
 - Assess the thesis topic
 - Conduct formal reviews of the student's thesis progress at least once per year; unsatisfactory progress may result in the termination of the student's registration
 - Determine whether a student qualifies as a candidate for the PhD degree at the second DEC meeting (qualifying DEC), approximately 1.5 years after program start
 - Provide the first assessment of the PhD thesis.
- Students must present the thesis work at a seminar at the UTIAS **Departmental Doctoral Seminar (DDS)**.
- Students must defend the thesis at the **Doctoral Final Oral Examination** pursuant to the [SGS Degree Regulations](#).

- Students must prepare at least one **formal manuscript for publication** in a refereed journal or refereed conference proceedings.
- Students have the option of completing an emphasis in Aerial Robotics; Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Flexible-Time)

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.

Program Requirements

- Students must maintain full-time, continuous registration for the first four years of study. Part-time registration is expected for the remaining period of study within the normal length.
 - Students starting with an MASc degree must spend a minimum of two years in the PhD program.
 - Students with an MASc in a discipline relevant to the field of PhD study are expected to complete the PhD program in less than six years.
- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** (four half courses) in Years 1 and 2 as follows:
 - All courses must be technical.
 - At least half of the required FCEs must be courses offered at UTIAS.
 - Students must achieve at least a B. average to be in good academic standing. Failure in any course taken for credit may result in termination of the student's candidacy.
 - Students deemed to have insufficient background may be required to complete supplementary coursework in addition to the required 2.0 FCEs.
- Students must complete the non-credit course JDE 1000H *Ethics in Research* (0.0 FCE) (a half-day workshop).
- Students must attend a total of **24 approved seminars**.
- Students undertake a program of research under the guidance of a Doctoral Examination Committee (DEC), which includes the student's supervisor and two other UTIAS professors. The DEC shall:
 - ascertain the suitability of the student for advanced research
 - assess the thesis topic

- conduct formal reviews of the student's thesis progress at least once per year; unsatisfactory progress may result in the termination of the student's registration)
- determine whether a student qualifies as a candidate for the PhD degree at the second DEC meeting (qualifying DEC), approximately 24 months after program start
- provide the first assessment of the PhD thesis.
- Students must complete a **thesis** based upon research carried out during the period of registration for the PhD degree.
- Students must present the thesis work at a seminar at the UTIAS **Departmental Doctoral Seminar (DDS)**.
- Students must defend the thesis at the **Doctoral Final Oral Examination** pursuant to the [SGS Degree Regulations](#).
- Students must prepare at least one **formal manuscript for publication** in a refereed journal or refereed conference proceedings.
- Students have the option of completing an emphasis in Aerial Robotics; Robotics; Sustainable Aviation; or Sustainable Energy as part of their degree program. Please see details in the Aerospace Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

6 years

Time Limit

8 years

Aerospace Studies: Aerospace Science and Engineering: MEng, MASc, PhD Emphases

Emphasis: Advanced Manufacturing (MEng only)

MEng students must successfully complete:

- **Four half courses (2.0 full-course equivalents [FCEs])**, including at least one core course.
- Elective courses may include other core courses, and courses from either of two streams: Manufacturing Engineering and Manufacturing Management.

Core Courses

AER 501H, AER 1403H, APS 1028H, CHE 1123H, MIE 519H, MIE 1740H.

Elective Courses — Manufacturing Engineering

AER 521H, AER 1415H, CHE 575H, CHE 1134H, MIE 506H, MIE 540H, MIE 1706H, MIE 1713H, MIE 1718H, MIE 1743H, MSE 558H, MSE 561H, MSE 1015H, MSE 1028H, MSE 1031H, ROB 501H.

Elective Courses — Manufacturing Management

APS 1005H, APS 1012H, APS 1013H, APS 1014H, APS 1017H, APS 1020H, APS 1023H, APS 1040H, APS 1088H, APS 1420H, CHE 561H, CHE 1434H, MIE 523H, MIE 1505H, MIE 1514H, MIE 1715H, MIE 1721H, MIE 1723H, MIE 1727H, TEP 1011H, TEP 1026H, TEP 1501H.

Emphasis: Aerial Robotics (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- **1.0 full-course equivalent [FCE]:** AER 1216H *Fundamentals of Unmanned Aerial Vehicles* and AER 1217H *Development of Autonomous Unmanned Aerial Systems*;
- **one other course** from the approved course list, which will be updated on a regular basis, or other related courses approved by professors; and
- one MAsc or PhD **thesis** relevant to unmanned aerial vehicles.

MEng students must successfully complete:

- **1.0 full-course equivalent [FCE]:** AER 1216H *Fundamentals of Unmanned Aerial Vehicles* and AER 1217H *Development of Autonomous Unmanned Aerial Systems*;
- **one other course** from the approved list or other related courses approved by professors; and
- one MEng **project course** related to unmanned aerial vehicles.

Elective Courses

AER 501H, AER 503H, AER 506H, AER 510H, AER 521H, AER 525H, AER 1202H, AER 1211H, AER 1214H, AER 1215H, AER 1303H, AER 1308H, AER 1316H, AER 1324H, AER 1403H, AER 1410H, AER 1415H, AER 1503H, AER 1513H, CSC 411H, CSC 2503H, CSC 2545H, ECE 537H, ECE 1512H, ECE 1505H, ECE 1747H, ECE 1762H, MIE 506H, MIE 1068H, MIE 1740H, MIE 1742H, MIE 1809H, ROB 1514H.

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Robotics (MAsc, MEng, PhD)

Students must successfully complete **four courses (2.0 full-course equivalents [FCEs])** chosen from at least two of the following groups, and no more than two in any given group:

Group 1: Planning and Control

AER 1516H, AER 1517H,
ECE 557H (exclusion: ECE 410H), ECE 1619H, ECE 1635H,
ECE 1636H, ECE 1647H, ECE 1653H, ECE 1657H,
MIE 1064H, MIE 1068H.

Group 2: Perception and Learning

AER 1513H, AER 1515H,
CSC 2503H, CSC 2506H, CSC 2515H, CSC 2541H, CSC
2548H,
ECE 516H, ECE 521H, ECE 1511H, ECE 1512H,
JEB 1433H,
ROB 501H.

Group 3: Modelling and Dynamics

AER 506H, AER 1503H, AER 1512H,
JEB 1444H,
MIE 1001H.

Group 4: Systems Design and Integration

AER 525H (exclusion: ECE 470H), AER 1216H, AER 1217H,
CSC 2621H,
MIE 505H, MIE 506H, MIE 1070H, MIE 1075H, MIE 1809H,
ROB 1514H.

Emphasis: Sustainable Aviation (MAsc, MEng, PhD)

MAsc and 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 1322H, AER 1403H, AER 1418H, 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.

MEng students must successfully complete:

- At least **four half courses (2.0 FCEs)** from: AER 1303H, AER 1304H, AER 1306H, AER 1308H, AER 1310H, AER 1316H, AER 1318H, AER 1319H, AER 1322H, AER 1403H, AER 1418H, AER 501H, AER 510H, CIV 1307H, PHY 1498H, PHY 2504H, PHY 2505H, CHE 1123H, JCC 1313H.
- AER 1315H (0.5 FCE).

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A thesis towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H,
CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H,
ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE
1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H,
MIE 1240H, MIE 1241H, MIE 1715H,
MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

Aerospace Studies: Aerospace Science and Engineering: MEng, MAsc, PhD Courses

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 1216H	Fundamentals of Unmanned Aerial Vehicles
AER 1217H	Development of Autonomous Unmanned Aerial Systems (prerequisite: AER 1216H)

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 1322H	Modern Aircraft Propulsion (prerequisite: AER 0510 or equivalent; undergraduate-level training in compressible flow)
AER 1324H	Introduction to Turbulence (exclusion: MIE 1207H)
AER 1326H	Aeroacoustics

Structures and Multidisciplinary Optimization

AER 0501H	Advanced Mechanics of Structures
AER 1403H	Advanced Aerospace Structures (PR)
AER 1410H	Topology Optimization
AER 1415H	Computational Optimization
AER 1416H	Numerical Methods for Uncertainty Quantification
AER 1418H	Variational Methods for Partial Differential Equations

Sustainable Aviation

AER 1315H	Sustainable Aviation
-----------	----------------------

Robotics and 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 1515H	Perception for Robotics (exclusions: AER 1514H, ROB 1514H)
AER 1516H	Robot Motion Planning
AER 1517H	Control for Robotics
AER 1520H	Microsatellite Design I
AER 1521H	Microsatellite Design II
ROB 1514H	Mobile Robotics

Management and Policy

AER 1601H	Aerospace Engineering and Operations Management
-----------	---

AER 1604H	Air Accident Investigation
-----------	----------------------------

Engineering Physics

AER 0507H	Introduction to Fusion Energy
AER 1717H	Applied Plasma Physics I (reading course)

Research Seminars and Professional Courses

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

Reading Courses

AER 1820H	Directed Reading in Aerospace Studies
-----------	---------------------------------------

APS Engineering Course

APS 1012H	Managing Business Innovation and Transformational Change
-----------	--

Anthropology

Anthropology: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Anthropology

MA and PhD

- Fields:
 - Archaeology;
 - Evolutionary Anthropology;
 - Linguistic and Semiotic Anthropology;
 - Medical Anthropology;
 - Sociocultural Anthropology

MSc

- Fields:
 - Archaeology;
 - Evolutionary Anthropology;
 - Medical Anthropology

Collaborative Specializations

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

- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Anthropology, MA, MSc, PhD
- [Contemporary East and Southeast Asian Studies](#)
 - Anthropology, MA
- [Development Policy and Power](#)
 - [Anthropology, MA, MSc](#)
- [Diaspora and Transnational Studies](#)
 - Anthropology, MA, MSc, PhD
- [Environmental Studies](#)
 - Anthropology, MA, MSc, PhD
- [Ethnic and Pluralism Studies](#)
 - Anthropology, MA, PhD
- [Food Studies](#)
 - Anthropology, MA, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Anthropology, PhD
- [Indigenous Health](#)
 - Anthropology, MA, MSc, PhD
- [Jewish Studies](#)
 - Anthropology, MA, PhD
- [Mediterranean Archaeology](#)
 - Anthropology, PhD
- [Sexual Diversity Studies](#)
 - Anthropology, MA, MSc, PhD
- [South Asian Studies](#)
 - Anthropology, MA, MSc, PhD
- [Women and Gender Studies](#)

- Anthropology, MA, MSc, PhD
- [Women's Health](#)
 - Anthropology, MA, MSc, PhD

Overview

Anthropology is concerned with the unity, diversity, and evolution of humanity (and non-human primates) and of human culture and society from a comparative and global perspective. The Department of Anthropology was established in 1936 and has included many of the most prominent figures in Canadian anthropology. The first MA degree was awarded in 1949; the first PhD in 1956.

Members of the department conduct research on present and past human societies, cultural knowledge and practice, evolutionary antecedents, and closely related species. Graduate training is offered in socio-cultural, medical, evolutionary/biological, linguistic, and archaeological branches of the field. Anthropology students at the University of Toronto can study human biology and evolution; human behaviour from its first appearance in the archaeological record to the first appearance of writing; language and society; anthropology of health; and the diversity of human culture in today's world.

Since Anthropology concerns the diversity and commonality of humans over time and around the globe, faculty and graduate research is broadly international and varies in method and theoretical frame. Nonetheless, it coheres in the quest to understand past and present human experience in social, cultural, and evolutionary contexts.

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

Anthropology: Graduate Faculty

Full Members

Allen, Andrea - PhD
 Bamford, Sandra - BA, MA, MPA, PhD
 Banning, Edward - BA, MA, PhD
 Barker, Joshua - BA, MA, PhD
 Begun, David - BA, MA, PhD
 Boddy, Janice - BA, MA, PhD (**Chair and Graduate Chair**)
 Bozcali, Firat - BA, MA, MA, PhD
 Butt, Waqas - BA, PhD
 Cameron, Michelle E - BSc, MSc, 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, Naisargi - BA, MA, PhD
 Dewar, Genevieve - BS, MA, PhD
 Friesen, Max - BA, MA, PhD
 Galloway, Tracey - BScN, MA, PhD
 Gillison, Gillian - BA, PhD
 Harrison, Timothy - BA, MA, PhD
 Hartblay, Cassandra Sarah - BA, MA, PhD
 Heller, Monica - BA, MA, PhD
 Hillewaert, Sarah Marleen - BA, MA, MA, PhD
 Kalmar, Ivan - BA, MA, PhD
 Kassamali, Sumayya - PhD
 Kilroy-Marac, Kathleen Patricia - MA, MPH, PhD
 Klassen, Pamela - BA, MA, PhD
 Knappett, Carl - MA, 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
 Mittermaier, Amira - MA, PhD
 Muehlebach, Andrea - MA, PhD
 Napolitano, Valentina - BSc, MPH, PhD
 Novroski, Nicole - BSc, MS, PhD
 Parra, Esteban - BA, MA, PhD
 Paz, Alejandro - BA, MPA, MA, PhD
 Pfeiffer, Susan - BA, MA, PhD
 Rogers, Tracy - BA, MA, PhD
 Samson, David - BA, PhD
 Sanders, Todd - BA, MA, MSc, PhD
 Satsuka, Shiho - BA, BA, MA, PhD
 Sawchuk, Lawrence - BA, MA, PhD
 Schillaci, Michael - BA, MA, PhD (**Graduate Coordinator**)
 Schroeder, Lauren - BSc, BSc, 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
 Taylor, Janelle - PhD
 Teichroeb, Julie - BSc, MA, PhD
 Viola, T. Bence - MSc, PhD
 Wardlow, Holly - BA, MA, MPH, PhD

Members Emeriti

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
 Philpott, Stuart - BA, MA, PhD
 Ray, Ajit - BSc, MSc, PhD
 Samarin, William - BA, PhD
 Vanderburgh, Rosamond - BA, MA

Associate Members

Bright, Kristin - PhD
 Cipolla, Craig - BA, MA, PhD
 Cummings, Maggie Irene - BA, MA, PhD
 Gotlib Conn, Lesley - BA, MA, PhD
 Maher, Lisa - BSc, PhD
 Moore, Hollis - PhD
 Mortensen, Lena - BA, MA, PhD
 Patton, Katherine - BA, MA, PhD
 Sammons, Edward - PhD
 Sapirstein, Philip - PhD, PhD, PhD
 Shugar, Aaron - BA, MS, PhD
 Williamson, Ronald - BA, MA, PhD
 Young, Donna Jean - BA, MA, PhD
 Zubrow, Ezra - BA, PhD

Anthropology: Anthropology MA

Master of Arts

Program Description

The department offers a Master of Arts degree program, both full-time and part-time. The full-time option normally extends over a 12-month period lasting from September to September.

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

- **Coursework.** Students must complete **3.5 full-course equivalents (FCEs)** including:
 - 0.5 FCE: ANT 3047H or ANT 4020H or ANT 6100H
 - 1.0 FCE: ANT 2000Y
 - 2.0 FCEs, of which at least 1.0 FCEs must be in Anthropology
 - Exceptions to coursework requirements must be approved by the advisor and Graduate Coordinator.

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

Anthropology: Anthropology MSc

Master of Science

Program Description

The MSc program is most appropriate for students who are considering careers in consulting archaeology, some aspects of medical or forensic anthropology, NGO work, or application to PhD programs in Anthropology at other Canadian universities.

The full-time two-year program is normally completed by the summer of Year 2. The MSc program can be taken 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 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

- **Coursework.** Students must complete **4.5 full-course equivalents (FCEs)** including:
 - 0.5 FCE: ANT 3047H or ANT 4020H or ANT 6100H
 - 1.0 FCE: ANT 2500Y
 - 3.0 FCEs, of which 1.5 FCEs will normally be science courses in archaeology, evolutionary anthropology, medical anthropology, or related disciplines depending on the student's program
 - Exceptions to coursework requirements must be approved by the advisor and Graduate Coordinator.

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

Anthropology: Anthropology PhD

Doctor of Philosophy

Program Description

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.

Applicants may enter the PhD program via one of two routes: 1) ing completion of an appropriate master's degree or 2) direct entry after completing a bachelor's degree.

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.](#)

PhD Program

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 required 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 strong backgrounds in anthropology or relevant disciplines (GPA of 3.70 or above in their last 5.0 full-course equivalents [FCEs]) and who have earned an appropriate bachelor's degree with a concentration in anthropology or a cognate discipline may apply directly for admission to the PhD program.

Program Requirements

- 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.
- A minimum of **3.0 full-course equivalents (FCEs)**, of which at least 1.5 FCEs are normally in anthropology.
- 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 Year 2 (e.g., May 1 for students who start in September).
- Before proceeding to **full-time research** (achieving candidacy), students must:
 - Be resident on campus for one year.
 - Complete the minimum of 3.0 FCEs (noted above), of which at least 1.5 FCEs are normally in anthropology.
 - Gain experience in research methods and design; requirement can be filled by completing coursework in ology 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.
 - An approved Ethics Protocol for all students working with living organisms and modern human remains.

Program Length

4 years

Although the program has been designed for completion in four years, some students may require a longer period to complete all of the requirements.

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Undergraduate students with strong backgrounds in anthropology or relevant disciplines (GPA of 3.70 or above in their last 5.0 full-course equivalents [FCEs]) and who have earned an appropriate bachelor's degree with a concentration in anthropology or a cognate discipline may apply directly for admission to the PhD program.
- 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.
- 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 required 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.

Program Requirements

- 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.
- Students must complete **5.0 graduate full-course equivalents (FCEs)** as follows:
 - 3.0 FCEs, normally taken in Year 1
 - 2.0 FCEs taken in Year 2, 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 Year 3 (e.g., May 1 for students who start in September).
- Before proceeding to **full-time research** (achieving candidacy), students must:
 - Be resident on campus for one year.
 - Complete the minimum 5.0 FCEs (noted above), of which at least 1.5 FCEs 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.
 - An approved Ethics Protocol for all students working with living organisms and modern human remains.

Program Length

5 years

Although the program has been designed for completion in five years, some students may require a longer period to complete all of the requirements.

Time Limit

7 years

Anthropology: Anthropology MA, MSc, PhD Courses

Not all courses are offered every year. Check with the department for the current year's offerings.

General

ANT 1096H	Quantitative Methods I
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
JTH 3000H	Coordinating Seminar in Ethnic and Pluralism Studies (for students in the Ethnic and Pluralism Studies collaborative specialization)

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 4025H	Archaeology of Eastern North America
ANT 4026H	Arctic Archaeology
ANT 4028H	Violence and Civilization
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 4051H	Archaeology and Climate Change
ANT 4059H	Anthropological Understanding of Cultural Transmission
ANT 4060H	Specific Problems I
ANT 4065H	Specific Problems II
ANT 4066H	Household Archaeology
ANT 4068H	Archaeology of Technology
ANT 4069H	Writing Archaeology
ANT 4070H	Archaeologies of Place, Urbanism, and Infrastructures

Evolutionary Anthropology

ANT 3005H	Advanced Topics in Paleoanthropology
ANT 3010H	Human Osteology: Theory and Practice
ANT 3011H	Palaeopathology
ANT 3031H,Y	Advanced Research Seminar I
ANT 3032H,Y	Advanced Research Seminar II
ANT 3033H,Y	Advanced Research Seminar III
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
ANT 3045H	Advanced Topics in Non-Human Primate Evolution
ANT 3046H	Paleoecology in Primate and Human Evolution
ANT 3047H	Evolutionary Anthropology Theory
ANT 3048H	Primatological Theory and Methods
ANT 3049H	Advanced Seminar in Evolutionary Morphology (prerequisite: ANT 3047H)
ANT 3050H	Species Concepts and Human Evolution
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 5144H	Foundations in Linguistic Anthropology
ANT 5148H	Language, Ideology and Political Economy
ANT 5150H	Nation, State, and Language in Francophone Canada
ANT 5151H	Metaphor, Language, and Science
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	Anthropology Beyond the Human
ANT 6010H	Anthropology of Korea: History and Dialogues with Other Disciplines within Korean Studies
ANT 6014H	Media and Mediation
ANT 6017H	Post-colonial Science Studies and the Cultural Politics of Knowledge Translation
ANT 6018H	Approaches to Nature and Culture
ANT 6019H	Anthropology of Neoliberalism
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 6032Y	Advanced Research Seminar
ANT 6033H,Y	Advanced Research Seminar III
ANT 6034H,Y	Advanced Research Seminar IV
ANT 6035H	Advanced Research Seminar
ANT 6036H	Advanced Research Seminar
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
ANT 6057H	Anthropology and Literature
ANT 6058H	Anthropology of Normativity
ANT 6059H	Anthropology and History
ANT 6060H	Anthropology and Indigenous Studies in North America
ANT 6061H	Anthropology of Sexuality and Gender
ANT 6062H	Disability Anthropology
ANT 6063H	Anthropology of Infrastructures
ANT 6064H	Evidence and Uncertainty: The Politics of Law and Science
ANT 6100H	History of Anthropological Thought
ANT 6150H	Proposing Ethnographic Research
ANT 6200H	Ethnographic Practicum

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

Applied Psychology and Human Development

APHD: Introduction

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 (admissions have been administratively suspended)

EdD

- Emphases:
 - Early Learning and Early Years;
 - Mental Health and Wellbeing;
 - Special Education

Counselling and Clinical Psychology

MA

- Fields:
 - Clinical and Counselling Psychology — offered by the Department of Applied Psychology and Human Development, OISE, St. George campus;
 - Clinical Psychology — offered by the Graduate Department of Psychological Clinical Science, University of Toronto Scarborough (UTSC)

PhD

- Fields:
 - Clinical and Counselling Psychology — offered by the Department of Applied Psychology and Human Development, OISE, St. George campus;
 - Clinical Psychology — offered by the Graduate Department of Psychological Clinical Science, University of Toronto Scarborough (UTSC)

Counselling Psychology

MEd

- Fields:
 - Counselling and Psychotherapy;
 - Global Mental Health and Counselling Psychology;
 - Guidance and Counselling

EdD

- Field:
 - Counselling and Psychotherapy

Developmental Psychology and Education

MA, MEd, and PhD

- Emphasis:
 - Early Learning (flexible-time)

School and Clinical Child Psychology

MA and PhD

Combined Degree Programs

- [UTM, Exceptionality in Human Learning \(Specialist\), Honours BSc / Child Study and Education, MA](#)
- [UTM, Psychology \(Major\), Honours BSc / Child Study and Education, MA](#)
- [UTM, Psychology \(Specialist\), Honours BSc / Child Study and Education, MA](#)

Collaborative Specializations

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

- [Addiction Studies](#)
 - Counselling and Clinical Psychology, MA, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
- [Community Development](#)
 - Counselling and Clinical Psychology (Clinical and Counselling Psychology field), MA
 - Counselling Psychology, MEd
- [Educational Policy](#)
 - Developmental Psychology and Education, MA, MEd, PhD
- [Human Development](#) (admissions have been suspended)
 - Developmental Psychology and Education, PhD
- [Indigenous Health](#)
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
- [Neuroscience](#)
 - Developmental Psychology and Education, MA, PhD
- [Sexual Diversity Studies](#)
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD
- [Women and Gender Studies](#)
 - Counselling and Clinical Psychology, MA, PhD
 - Counselling Psychology, MEd, EdD

Overview

Guided by the highest standards of scholarship and a commitment to equity and social justice, students and faculty in the Department of Applied Psychology and Human

Development examine major issues in education, human development, applied psychology and professional practice, answering the critical questions that create action in the professional practice of the hundreds of thousands of teachers, researchers, counsellors, clinical psychologists, professionals, policy makers, leaders, and influencers who are part of the OISE community worldwide.

All programs in the department commence in September.

Contact and Address

Admissions

Initial inquiries regarding admission to graduate studies in the Department of Applied Psychology and Human Development should be made directly to:

Web: www.oise.utoronto.ca/orss
 Email: admissions.oise@utoronto.ca
 Tel: (416) 978-4300
 Fax: (416) 323-9964

Office of the Registrar and Student Services
 Ontario Institute for Studies in Education (OISE)
 University of Toronto
 252 Bloor Street West, Room 8-225
 Toronto, Ontario M5S 1V6
 Canada

Programs

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

APHD: Graduate Faculty

Full Members

Andrade, Brendan - PhD
 Ansloos, Jeffrey - PhD
 Barrera, Maria - MA, PhD
 Brian, Jessica - BA, MA, PhD
 Chen, Becky - BA, MEd, MA, PhD
 Chen, Charles - BA, MEd, MA, PhD
 Ducharme, Joseph - BA, MPsy, PhD
 Ferrari, Michel - BA, MA, PhD
 Ganea, Patricia - BA, PhD
 Geva, Esther - BA, MA, PhD
 Gillis, Roy - BSc, MA, PhD
 Goldstein, Abby - BA, MA, PhD
 Henderson, Joanna - BA, MA, PhD
 Jang, Eunice Eunhee - BA, MA, PhD
 Jenkins, Jennifer - BA, MA, PhD
 Lee, Kang - BSc, MEd, PhD
 Martinussen, Rhonda - BE, MEd, PhD
 McCready, Lance - BA, MA, PhD
 Moodley, Roy - BA, MA, PhD

Moss, Joan - BA, MA, PhD
 O'Sullivan, Julia - BA, MA, PhD
 Pelletier, Janette - AB, BE, MEd, PhD
 Perlman, Michal - BA, MA, PhD
 Peterson-Badali, Michele - BA, MA, PhD
 Schachar, Russell James - MD
 Schmuckler, Mark - BA, PhD
 Schneider, Margaret - BA, MA, PhD
 Scott, Katreena - BA, MA, PhD
 Slotta, James - BS, MPsy, PhD
 Stermac, Lana - BSc, MA, PhD
 Stewart, Suzanne - BA, 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

Tannock, Rosemary - BSc, MA, PhD

Associate Members

Augimeri, Leena - BA, MEd, PhD
 Cleovoulou, Yiola - BA, BEd, MA, PhD
 Comay, Julie - BA, MA, DPhil
 Cunningham, Todd - BS, MA, PhD
 Deacon, Helene - BS, PhD, PhD
 Dudley, Albert P. - PhD
 Goodman, Deborah - BA, MSW, DSW
 Gottardo, Alexandra - PhD
 Haltigan, John - BA, MA, PhD
 Hidi, Suzanne - BA, MA, PhD
 Katz, Steven - BA, MEd, PhD
 Plamondon, Andre - BA, PhD
 Rice, Carla - BA, PhD
 Rogers, Maria - PhD
 Schmidt, Fred - BA, MA, PhD
 Silver, Judith - BSc, PhD
 Smylie, Janet - MPH, MD
 Travers, Robert - BA, MA, PhD
 Wade, Mark - PhD

APHD: Child Study and Education MA

Master of Arts

Program Description

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 c..... 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 c..... 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 (junior kindergarten to grade 6) of Ontario schools. Research is embedded throughout the courses and the program.

This program offers two fields:

- Practice-Based Inquiry (PBI) in Psychology and Educational Practice
- Research-Intensive Training (RIT) in Psychology and Education (admissions have been administratively suspended)

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 (working cooperatively with colleagues and using data and research findings to meet student needs). 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.

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

- **Coursework.** Students must complete **11.0 full-course equivalents (FCEs)** including practicum placements and an internship as follows:
 - **Year 1** — 7.0 FCEs as follows:
 - APD 2200Y Child Study: Observation, Evaluation, Reporting, and Research (1.0 FCE).
 - APD 2201Y Childhood Education Seminar I (1.0 FCE).
 - APD 2210Y Introduction to Curriculum I: Core Areas (1.0 FCE).
 - APD 2220Y *Teaching Practicum* (1.0 FCE): three eight-week, half-day placements in

kindergarten/early childhood, grades 1 to 3, and grades 4 to 6.

- APD 2280Y *Introduction to Special Education and Adaptive Instruction* (1.0 FCE; Credit/No Credit).
- APD 1226H *Foundations in Inquiry and Data-Based Decision Making* (0.5 FCE).
- 1.5 elective FCEs (equivalent to three half courses) chosen from among master's-level courses in the Department of Applied Psychology and Human Development and, in some cases, other departments (to be completed during the Spring/Summer session).
- Students without an undergraduate course in child development must take APD 1201H *Child and Adolescent Development* (0.5 FCE) as an elective.
- 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* (0.5 FCE).
 - APD 2212H *Theory and Curriculum II: Mathematics* (0.5 FCE).
 - APD 2214H *Curriculum and Pedagogies for Cross-Curricular Teaching* (0.5 FCE).
 - APD 2221Y *Advanced Teaching Practicum* (1.0 FCE), a 12-week full-time internship to be taken in one session.
 - APD 2222H *Professional Practice Project: Role A* (0.5 FCE).
 - APD 2223H *Professional Practice Project: Role B* (0.5 FCE).
 - APD 2202H *Childhood Education Seminar II: Advanced Teaching* (0.5 FCE), taken during the internship session of Year 2.

Program Length

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

Time Limit

3 years full-time

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

Admissions to this field have been administratively suspended.

The field provides concurrent training in research methods and educational practice for elementary teacher certification, including 600 hours of practicum in classrooms. It supports the development of expertise in scientific examination of educational and psychological issues and highlights the integration between science and classroom practice. RIT students must complete a Major Research Paper (MRP) by April of Year 2 in order to graduate.

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 strong research experience and experience working with groups of children, preferably in responsible positions.
- Normally, an interview is required prior to admission.

Program Requirements

- **Coursework.** Students must complete **11.0 full-course equivalents (FCEs)** including practicum placements and an internship as follows (although a thesis paper is not required, students must complete a Major Research Paper):
 - **Year 1** . 7.0 FCEs as follows:
 - APD 2200Y *Child Study: Observation, Evaluation, Reporting, and Research* (1.0 FCE).
 - APD 2201Y *Childhood Education Seminar I* (1.0 FCE).
 - APD 2210Y *Introduction to Curriculum I: Core Areas* (1.0 FCE).
 - APD 2220Y *Teaching Practicum* (1.0 FCE): three eight-week, half-day placements in kindergarten/early childhood, grades 1 to 3, and grades 4 to 6.
 - APD 2280Y *Introduction to Special Education and Adaptive Instruction* (1.0 FCE; Credit/No Credit).
 - APD 1209H *Research Methods and Thesis Preparation in AP&HD* (0.5 FCE).
 - 1.5 elective FCEs (equivalent to three half courses) chosen from among master's-level courses in the Department of Applied Psychology and Human Development and, in some cases, other departments; (to be completed during the Spring/Summer session).
 - Students without an undergraduate course in child development must take APD 1201H *Child and Adolescent Development* (0.5 FCE) as an elective.
 - 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* (0.5 FCE).
 - APD 2212H *Theory and Curriculum II: Mathematics* (0.5 FCE).
 - APD 2214H *Curriculum and Pedagogies for Cross-Curricular Teaching* (0.5 FCE).
 - APD 2221Y *Advanced Teaching Practicum* (1.0 FCE), a 3.5-month full-time internship to be taken in one session.
 - APD 2001Y⁰ *Major Research Paper* (1.0 FCE).
 - APD 2202H *Childhood Education Seminar II: Advanced Teaching* (0.5 FCE), taken during the internship session of Year 2.

Program Length

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

Time Limit

3 years full-time

APHD: Child Study and Education EdD

Doctor of Education

Program Description

This professional doctorate is designed to prepare professionals working in the field of education (or a highly related area) to extend their professional knowledge and practice to further develop their ability to be scholar-practitioners within child study. This program aims to provide practitioners with an advanced degree to enable them to engage in innovation, advanced professional practice, and understand how the field of child study can inform decision making in multiple contexts including the classroom.

This degree is designed for practitioners who are working within contexts in which children are served or supported and/or with individuals who support or guide those who work with children (e.g., parents, families, and teachers). The Doctor of Education (EdD) program is only available on a full-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. Please note that applicants will be accepted into this degree program **every other year**.
- A master's degree: an MA or MEd degree in Education (e.g., Master of Arts in Child Study and Education, Master of Education degree, Master of Teaching degree) with high academic standing (equivalent to a B+ or better) from a recognized university. Applicants with master's degrees in other disciplines may be eligible to apply for admission, but may have to complete additional courses in developmental psychology and/or child study.
- Letter of Intent: applicants must submit a well-written letter of intent in which they highlight their research interests, provide some insight into the problem of practice they are currently wishing to address, and describe their professional experiences and how these relate to their research interests and proposed problem of practice.
- Normally applicants will have in-depth work experience (i.e., normally a minimum of 3 years of current or recent work experience) in an education-related field within a school or community setting. They should be able to identify how their work environment would be able to support and facilitate their research related to their problem of practice, which is a major outcome of this degree.
- A letter from an employer supporting the potential candidate's goals and ability to conduct their applied research within the school or community setting is required.
- 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) or Major Research Paper (MRP). Applicants who do not have a QRP or MRP must provide a writing sample that highlights their ability to write clearly and analytically about issues in education and/or child study. Examples include a single authored master's-level course paper, a policy document, or a professional publication.

- Normally, an interview is required prior to admission.

Program Requirements

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)** as follows:
 - APD 3301H *Issues in Child Study and Education: Research, Policy, and Problems of Practice (RM)* (0.5 FCE).
 - APD 3302H *Advanced Study of Critical Issues in Special Education, Mental Health, and Child Security* (0.5 FCE).
 - APD XXXXH *Advanced Study of Tools and Research Methods for Investigating Problems of Practice: Data-Driven Research for Decision-Making* (0.5 FCE) [pending approval].
 - APD 3304H *Research Proposal Development (RM)* (0.5 FCE).
 - Two half courses (1.0 FCE) from one of the three emphases: 1) Early Learning and Early Years; 2) Mental Health and Wellbeing; or 3) Special Education. See details on each emphasis below.
 - Research Methods course (select from the list of available research methods courses) (0.5 FCE).
 - APD XXXXH *Decision-Making and Systems Change Theory* (0.5 FCE) [pending approval].
- Students will have successfully reached candidacy once their thesis committee is formed and formal approval of the thesis proposal has been given by the committee.
- The **thesis (Dissertation in Practice)** is the culminating component of the Doctor of Education degree in Child Study and Education that shall include an identification and investigation of a problem of practice, the application of theory and research to problems of practice and/or policy and a design for implementation of ideas arising. Specifically, the thesis (Dissertation in Practice) consists of original research in the form of a written proposal or plan for innovative and impactful educational policy, guideline, advocacy, development project, or activism within an education-related field, aimed at improving practice at local, regional, national, or international levels.
- Students are full-time and must maintain continuous registration full-time and pay full-time fees until all degree requirements, including the thesis (Dissertation in Practice), are completed.
- Students cannot transfer between the EdD and PhD programs.

Program Length

4 years full-time

Time Limit

6 years

APHD: Child Study and Education EdD Emphases

Emphasis: Early Learning and Early Years

This emphasis will allow students to take specialized courses which address social emotional wellbeing in the early years. This emphasis is designed to help students gain a deeper understanding and expertise in early learning and early years while also integrating their knowledge and understanding of special education, security, and child and youth wellbeing.

- **Coursework.** From the following course list, EdD students must successfully complete **1.0 full-course equivalent (FCE)**, which is counted towards the total FCEs required for the student's degree program:
 - APD 1211H, APD 1237H, APD 1249H, APD 1259H, APD 1272H, APD 1280H, APD 1286H, APD 1299H, APD 3203H, APD 3273H, APD 3272H.

Upon successful completion of the emphasis requirements and degree requirements, students may make a request to the CSE Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Mental Health and Wellbeing

This emphasis will allow students to take specialized courses which address the mental health of children and/or youth in various settings including the classroom as well as delve into issues of risk and resilience and culture. This emphasis is designed to help students gain a deeper understanding of and expertise in special education, security, and child and youth wellbeing.

- **Coursework.** From the following course list, EdD students must successfully complete **1.0 full-course equivalent (FCE)**, which is counted towards the total FCEs required for the student's degree program:
 - APD 1236H, APD 1256H, APD 1279H, APD 1295H, APD 1297H, APD 3221H, APD 3232H, APD 5284Y.

Upon successful completion of the emphasis requirements and degree requirements, students may make a request to the CSE Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Special Education

This emphasis will allow students to take specialized courses that delve into specific domains of special education. This emphasis is designed to help students gain a deeper understanding of and expertise in special education while also considering issues pertaining to security and child and youth wellbeing.

- **Coursework.** From the following course list, EdD students must successfully complete **1.0 full-course equivalent**

(FCE), which is counted towards the total FCEs required for the student's degree program:

- APD 1271H, APD 1284H, APD 1285H, APD 1296H, APD 2275H, APD 2296H, APD 3297H.

Upon successful completion of the emphasis requirements and degree requirements, students may make a request to the CSE Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

APHD: Child Study and Education MA Courses

Year 1 Required Courses

APD 2200Y	Child Study: Observation, Evaluation, Reporting, and Research
APD 2201Y	Childhood Education Seminar I
APD 2210Y	Introduction to Curriculum I: Core Areas
APD 2220Y	Teaching Practicum
APD 2280Y	Introduction to Special Education and Adaptive Instruction (Credit/No Credit)
Plus	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
Plus	Three elective half courses to be completed during the Spring/Summer session.
Plus	Full-year religious education course (if interested in teaching in the Roman Catholic separate school board). This course does not count towards the Child Study and Education program requirements. There is a separate fee. Students interested in this option should contact the OISE Continuing and Professional Learning Office for course enrolment information.

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	Curriculum and Pedagogies for Cross-Curricular Teaching (prerequisite: APD 2210Y)
Plus	PBI field only: APD 2222H Professional Practice Project: Role A and APD 2223H Professional Practice Project: Role B 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 two recommended Special Education electives beyond their core foundation course (APD 2280Y).

Early Childhood

Students interested in kindergarten programs may consider Early Childhood as a focused area of study. Such students are strongly encouraged to complete one or more recommended Early Childhood elective course plus an internship in a kindergarten class.

Course List

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1201H	Child and Adolescent Development
APD 1209H	Research Methods and Thesis Preparation in AP&HD
APD 1211H	Psychological Foundations of Early Development and Education
APD 1217H	Foundations of Proactive Behavioural and Cognitive-Behavioural Intervention with Children
APD 1226H	Foundations in Inquiry and Data-Based Decision Making
APD 1256H	Child Abuse: Intervention and Prevention
APD 1259H	Family Relationships with Early Childhood Services and Schools
APD 1271H	Perspectives on Executive Functions in Education: From Theory to Practice
APD 1272H	Play and Education
APD 1280H	Symbolic Development and Learning
APD 1286H	Foundations of Literacy Development for School Age Children
APD 1289H	Multivariate Analysis with Applications
APD 1294H	Technology, Psychology, and Play
APD 1296H	Assessing School-Aged Language Learners
APD 1298H	Imagination, Reasoning, and Learning
APD 1299H	Language Acquisition and Development in Early Childhood

APD 2001Y ⁰	Major Research Paper
APD 2200Y	Child Study: Observation, Evaluation, Reporting, and Research
APD 2201Y	Childhood Education Seminar I
APD 2202H	Childhood Education Seminar II: Advanced Teaching
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	Curriculum and Pedagogies for Cross-Curricular Teaching (prerequisite: APD 2210Y)
APD 2220Y	Teaching Practicum
APD 2221Y	Advanced Teaching Practicum
APD 2222H	Professional Practice Project: Role A
APD 2223H	Professional Practice Project: Role B
APD 2232H	Consultation Skill Development for Educators
APD 2275H	Technology for Adaptive Instruction and Special Education
APD 2280Y	Introduction to Special Education and Adaptive Instruction (Credit/No Credit)
APD 2293H	Interpretation of Educational Research
APD 2296H	Reading and Writing Difficulties
APD 3203H	Children's Theory of Mind
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
JDS 1249H	Social-Emotional Development and Applications

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
-----------	---

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

APHD: Child Study and Education EdD Courses

APD 1289H	Multivariate Analysis with Applications (RM)
APD 3202H	A Foundation of Program Evaluation in Social Sciences (RM)
APD 3301H	Issues in Child Study and Education: Research, Policy, and Problems of Practice (RM)
APD 3302H	Advanced Study of Critical Issues in Special Education, Mental Health, and Child Security (prerequisite: APD 3301H)
APD XXXXH	Advanced Study of Tools and Research Methods for Investigating Problems of Practice: Data-Driven Research for Decision-Making [course code pending approval]
APD 3304H	Research Proposal Development (RM)
APD XXXXH	Decision-Making and Systems Change Theory [course code pending approval]
JOI 1288H	Intermediate Statistics and Research Design (RM)

JOI 3228H	Mixed Methods Research Design in Social Sciences (RM)
LHA 1105H	Introduction to Qualitative Research: Part I (RM)

APHD: Counselling and Clinical Psychology MA; Field: Clinical and Counselling Psychology

Master of Arts

Program Description

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

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

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 Clinical Psychology field on assessment and the treatment of psychopathology in adults.

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, Clinical and Counselling Psychology field.

The MA is taken on a full-time or part-time basis. However, students in the part-time option 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

- **Coursework.** Students must complete a total of **4.5 FCEs** as follows:
 - APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy* (1.0 FCE) (500 hours of practicum). MA students will attend a minimum of three colloquium presentations during their program, which partially fulfills the course requirements for APD 1203Y+.
 - 0.5 elective FCE.
 - APD 1208Y+ *Cognitive and Personality Theory and Assessment* (1.0 FCE).
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy* (0.5 FCE).
 - APD 1228H *Individual and Group Psychotherapy: Families and Couples Counselling* (0.5 FCE) **or** APD 1261H *Group Work in Counselling and Psychotherapy* (0.5 FCE) (or an equivalent course).
 - APD 1263H *Research Methods for Clinical and Counselling Psychology* (RM) (0.5 FCE).
 - JOI 1288H *Intermediate Statistics and Research Design (RM)* (0.5 FCE).
- **Master's thesis.**
- **Full-time option:** Full-time, on-campus study is required from September to April, which represents the Fall and Winter sessions. 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 the 2021-22 academic year, admissions to the part-time option have been administratively suspended):** 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. Once they have begun their last required course, they must register continuously and pay the part-time fees until all degree requirements have been completed. 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

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

APHD: Counselling and Clinical Psychology PhD; Field: Clinical and Counselling Psychology

Doctor of Philosophy

Program Description

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

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

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 Clinical Psychology field on assessment and the treatment of psychopathology in adults.

The principal aim of this **PhD 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 program in Clinical and Counselling Psychology at OISE was accredited by the Canadian Psychological Association (CPA) in 2015-2016 for a six-year term.

For the 2021-22 academic year, admissions to the flexible-time PhD option have been administratively suspended.

PhD Program

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), with a standing equivalent to a University of Toronto A- or better in the final year.
- A University of Toronto MA degree in Clinical and Counselling Psychology with a grade of A- or better, or its equivalent.

Program Requirements

- **Coursework.** Students must complete a minimum of **5.5 FCEs** as follows:
 - 2.5 FCEs in Counselling and Psychotherapy:
 - APD 3215H *Advanced Psychotherapy Seminar*;
 - APD 3217Y+ *Advanced Practicum in Clinical and Counselling Psychology* (Credit/No Credit; 600-hour practicum); and APD 3268Y *Internship in Clinical and Counselling Psychology* (1,600-hour internship — arrangements must be made in consultation with the Director of Clinical Training). PhD students will attend a minimum of six colloquium presentations during their program, which partially fulfills the course requirements for APD 3268Y.
 - 1.0 FCE in Psychology Measurement/Assessment and Diagnosis:
 - APD 3225H *Assessment and Diagnosis of Personality and Psychopathology*; and
 - APD 3260H *Psychodiagnostic Systems*.
 - 0.5 FCE in Supervision and Consultation:
 - APD 3261H+ *Clinical Supervision and Consultation Practicum*.
 - 1.0 FCE in Advanced Research Methods:
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)*; and
 - An advanced-level statistics course (in consultation with supervisors). Courses can be drawn from those offered at OISE or other Faculties with the permission of the instructor.
 - 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 and Clinical Psychology faculty. The content of such dissertation research may address theoretical issues applicable to clinical and 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 clinical and counselling psychology.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

5 years

Time Limit

6 years

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

PhD Program (Flexible-Time)

For the 2021-22 academic year, admissions to the flexible-time PhD option have been administratively suspended.

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), with a standing equivalent to a University of Toronto A- or better in the final year.
- A University of Toronto MA degree in Clinical and Counselling Psychology with a grade of A- or better, or its equivalent.
- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option. Applicants should also demonstrate that they are active professionals engaged in activities relevant to their proposed program of study.

Program Requirements

- **Coursework.** Students must complete a minimum of **5.5 FCEs** as follows:
 - 2.5 FCEs in Counselling and Psychotherapy:
 - APD 3215H *Advanced Psychotherapy Seminar*;

APHD: Counselling and Clinical Psychology MA and PhD; Field: Clinical and Counselling Psychology Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1202Y	Theories and Techniques of Counselling and Psychotherapy
APD 1203Y ⁺	Practicum I: Interventions in Counselling Psychology and Psychotherapy
APD 1208Y ⁺	Cognitive and Personality Theory and Assessment
APD 1219H	Ethical Issues in Professional Practice in Psychology and Psychotherapy
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1260H	Family Therapy (exclusion: APD 1261H)
APD 1261H	Group Work in Counselling and Psychotherapy
APD 1263H	Research Methods for Clinical and Counselling Psychology (RM)
APD 1267H	Emotion-Focused Therapy (co-requisite: APD 1202Y; exclusion: APD 5004H)
APD 3202H	A Foundation of Program Evaluation in Social Sciences (RM)
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
APD 3215H	Advanced Psychotherapy Seminar
APD 3217 Y ⁺	Advanced Practicum in Clinical and Counselling Psychology (Credit/No Credit)
APD 3225H	Assessment and Diagnosis of Personality and Psychopathology
APD 3260H	Psychodiagnostic Systems
APD 3261H ⁺	Clinical Supervision and Consultation Practicum (pre- or co-requisite: APD 3217Y ⁺)
APD 3268Y	Internship in Clinical and Counselling Psychology
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
JOI 1287H	Introduction to Applied Statistics (RM)
JOI 1288H	Intermediate Statistics and Research Design (RM)
JOI 3048H	Intermediate Statistics in Educational Research: Multiple Regression Analysis (RM)

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

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

- APD 3217Y⁺ *Advanced Practicum in Clinical and Counselling Psychology* (Credit/No Credit; 600-hour practicum); and APD 3268Y *Internship in Clinical and Counselling Psychology* (1,600-hour internship . arrangements must be made in consultation with the Coordinator of Internship and Counselling Services). PhD students will attend a minimum of six colloquium presentations during their program, which partially fulfills the course requirements for APD 3268Y.
- 1.0 FCE in Psychology Measurement/Assessment and Diagnosis:
 - APD 3225H *Assessment and Diagnosis of Personality and Psychopathology*; and
 - APD 3260H *Psychodiagnostic Systems*.
- 0.5 FCE in Supervision and Consultation:
 - APD 3261H⁺ *Clinical Supervision and Consultation Practicum*.
- 1.0 FCE in Advanced Research Methods:
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)*; and
 - An advanced-level statistics course (in consultation with supervisors). Courses can be drawn from those offered at OISE or other Faculties with the permission of the instructor.
- 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 and Clinical Psychology faculty. The content of such dissertation research may address theoretical issues applicable to clinical and 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 clinical and counselling psychology.
- Students must register continuously until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

6 years

Time Limit

8 years

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

Psychological Clinical Science: Counselling and Clinical Psychology MA; Field: Clinical Psychology

Master of Arts

Overview

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 and cognitive neuroscience, psychological assessment and clinical neuropsychology, psychopathology, personality, and mindfulness- and acceptance-based psychotherapies.

The field in Clinical Psychology adheres to a generalist model of training, with a primary focus on adults. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance knowledge of the etiology and assessment and treatment of mental disorders. Instruction is provided in psychopathology, assessment, and intervention, and students are trained to practise with a variety of adult populations. The field also boasts strength in neuropsychology.

Contact and Address

Web: www.utoronto.ca/psych/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

Program Description

The full-time, two-year MA program is designed for applicants interested in working as researchers or practitioners in a variety of psychological and academic 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 Examination (GRE).
- Two academic letters of reference.
- A personal statement.
- A curriculum vitae.
- Completion of the Psychological Clinical Science MA, PhD Program Faculty Selection Form
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- Coursework.** The Clinical Psychology field for the MA in Counselling and Clinical Psychology requires **5.0 full-course equivalents (FCEs)** including an ethics course, practicum-based courses, a clinical practicum, and a thesis.
 - 4.5 FCEs as follows:
 - Year 1:** CPS 1601H *Psychopathology* (0.5 FCE); CPS 1701H *Psychological Assessment I* (0.5 FCE); CPS 1702H *Psychological Assessment II* (0.5 FCE); CPS 1801H *Psychotherapy* (0.5 FCE); and CPS 1901H *Ethics* (0.5 FCE).
 - Year 2:** CPS 1101H *Clinical Research Design* (0.5 FCE); CPS 1102H *Statistical Techniques I* (0.5 FCE); CPS 1802H *Applied Interventions in Clinical Psychology* (0.5 FCE); CPS 1803H *Practicum in Psychological Interventions* (0.5 FCE).
 - 0.5 FCE: Students must complete a clinical practicum at a pre-approved placement site in the final Summer of the program (CPS 2999H *Summer Practicum*)
- 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

Psychological Clinical Science: Counselling and Clinical Psychology PhD; Field: Clinical Psychology

Doctor of Philosophy

Overview

The **field in Clinical Psychology** is offered primarily by the Graduate Department of Psychological Clinical Science at UTSC. Clinical Psychology adheres to a Clinical Science model of training and the primary and overriding objective of graduate training 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 and cognitive neuroscience, psychological assessment and clinical neuropsychology, psychopathology, personality, and mindfulness- and acceptance-based psychotherapies.

The field in Clinical Psychology adheres to a generalist model of training, with a primary focus on adults. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance knowledge of the etiology and assessment and treatment of mental disorders. Instruction is provided in psychopathology, assessment, and intervention, and students are trained to practise with a variety of adult populations. The field also boasts strength in neuropsychology.

Contact and Address

Web: www.utoronto.ca/psych/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

Program Description

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 and clinical careers as clinical scientists in university and medical and psychological settings.

The field 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.
- A master's degree in Clinical Psychology (or its equivalent) from a recognized university, with a minimum A- average and excellent research performance.
- Competitive scores on General and Subject (Psychology) tests of the Graduate Record Examinations (GRE).
- Two academic letters of reference.
- A personal statement.
- A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- The PhD program requires **5.5 full-course equivalents (FCEs)** including coursework, three clinical placements, plus a comprehensive examination, thesis proposal, thesis, and thesis defence:
 - 3.5 FCEs in coursework, normally completed by the end of Year 3 (CPS 1103H, CPS 1201H, CPS 1301H, CPS 1401H, CPS 2901H, CPS 2902H, and CPS 3901H).
 - 2.0 FCEs in clinical work:
 - 1.0 FCE in two separate part-time clinical placements during Years 1 and 2 (CPS 3999H, CPS 4999H).
 - 1.0 FCE in a one-year, full-time clinical internship at a Canadian Psychological Association- or American Psychological Association-accredited clinical setting (or equivalent), which normally takes place during Year 5 (CPS 5999Y). Eligibility for the clinical internship will be assessed by the Director of Clinical Training (DCT) prior to Year 4 of the program.
- The **comprehensive examination** requirement consists of two mandatory components:
 1. An oral examination focused on clinical expertise (normally completed in the Fall session of Year 2); and
 2. A research-focused grant proposal (normally completed in the Fall session of Year 2).
 - A pass on both components is required for a student to continue on to PhD candidacy. Students who fail the oral exam will have the opportunity to retake the exam. Students who fail the grant proposal will have the opportunity to revise and resubmit. Students who fail either or both component(s) on the second attempt should consult the School of Graduate Studies' [Academic Appeals Policy](#). If after the appeals process and second attempts at either or both component(s) result in a failure, the student will no longer be eligible to continue in the PhD program. Guidelines on the comprehensive requirement can be found in the PCS Graduate Handbook.

- **Thesis proposal**, normally approved prior to the start of Year 3 of the program.
- **Completed thesis**.
- Successful **defence of the thesis** at the Final Oral Examination.
- For students interested in acquiring additional clinical hours, the PhD program provides the following optional courses: CPS 6999H and CPS 7999H. Please note that optional courses for the PhD must be approved by the faculty supervisor, the DCT, and the Graduate Chair prior to course enrolment.
- Supervisors will have annual meetings with students to assess academic progress and to develop plans of study. The DCT will also hold formal annual meetings with students to assess clinical and professional progress.
- The program length is five years, which includes a pre-doctoral internship.

Program Length

5 years

Time Limit

6 years

Psychological Clinical Science: Counselling and Clinical Psychology MA and PhD; Field: Clinical Psychology Courses

CPS 1101H	Clinical Research Design (exclusion: APD 1263H Research Methods for Clinical and Counselling Psychology)
CPS 1102H	Statistical Techniques I (exclusion: JOI 1287H Introduction to Applied Statistics)
CPS 1103H	Statistical Techniques II (exclusion: JOI 1288H Intermediate Statistics and Research Design)
CPS 1201H	Neurobiological Bases of Behaviour
CPS 1209H	Clinical Neuropsychology
CPS 1301H	Cognitive-Affective Bases of Behaviour
CPS 1401H	Social and Interpersonal Bases of Behaviour
CPS 1501H	Personality
CPS 1601H	Psychopathology (exclusion: APD 3260H Psychodiagnostic Systems)
CPS 1701H	Psychological Assessment I (exclusion: APD 3224H Individual Cognitive and Personality Assessment)
CPS 1702H	Psychological Assessment II
CPS 1801H	Psychotherapy (exclusion: APD 1202Y Theories and Techniques of Counselling and Psychotherapy)
CPS 1802H	Applied Interventions in Clinical Psychology (exclusion: APD 1203Y+ Practicum I: Interventions in Counselling Psychology and Psychotherapy)
CPS 1803H	Practicum in Psychological Interventions (exclusion: APD 1203Y+ Practicum I: Interventions in Counselling Psychology and Psychotherapy)

	Interventions in Counselling Psychology and Psychotherapy)
CPS 1809H	Clinical Psychopharmacology
CPS 1810H	Advanced Psychotherapy
CPS 1901H	Ethics (exclusion: APD 1219H Ethical Issues in Professional Practice in Psychology and Psychotherapy)
CPS 2901H	Practicum in Clinical Supervision
CPS 2902H	Quality Assurance and Consultation
CPS 2999H	Summer Practicum
CPS 3801H	Multi-Person Therapies (exclusions: APD 1228H Individual and Group Psychotherapy: Family and Couples Counselling, APD 1260H Family Therapy, and APD 1261H Group Work in Counselling and Psychotherapy)
CPS 3901H	The Historical and Scientific Foundations of 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 5001H	Directed Readings
CPS 5002H	Directed Readings
CPS 5999Y	Internship (exclusion: APD 3268Y Internship in Clinical and Counselling Psychology)
CPS 6999H	Clinical Placement III
CPS 7999H	Clinical Placement IV

APHD: Counselling Psychology MEd; Field: Counselling and Psychotherapy

Master of Education

Program Description

The **field in Counselling and Psychotherapy**, within the Counselling Psychology 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) and as a Registered Psychotherapist with the College of Registered Psychotherapists of Ontario (CRPO).

The MEd program can be taken 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 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

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - APD 1202Y *Theories and Techniques of Counselling and Psychotherapy* (1.0 FCE).
 - APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy* (1.0 FCE). The practicum placement is the supervised training component of this course.
 - APD 1214H *Critical Multicultural Practice: Diversity Issues in Counselling and Psychotherapy* (0.5 FCE; prerequisite: APD 1202Y and co-requisite: APD 1203Y+).
 - APD 1219H *Ethical Issues in Professional Practice and Psychotherapy* (0.5 FCE).
 - APD 1260H *Family Therapy* (0.5 FCE) **or** APD 1261H *Group Work in Counselling and Psychotherapy* (0.5 FCE).
 - 1.5 FCEs in electives. Recommended electives: one of APD 1266H *Career Counselling and Development: Transition from School to Work* (0.5 FCE) **or** APD 1268H *Career Counselling and Development: Transitions in Adulthood* (0.5 FCE).
- A **comprehensive examination.** Upon completion of program course requirements, students must pass a written comprehensive exam of selected topics from the program curriculum and training.
- Optional additional practicum, counted as one of the electives. Students may choose to complete a practicum (APD 1247H *Practicum in Adult Counselling and Psychotherapy*) for an additional 250 hours of field placement concurrent with the required course (APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy*). Arrangements for the practicum placement must be made in consultation with and the approval of the Director of Clinical Training. [Find out more about the practicum.](#)

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

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

APHD: Counselling Psychology MEd; Field: Global Mental Health and Counselling Psychology

Master of Education

Program Description

The **field in Global Mental Health and Counselling Psychology**, within the Counselling Psychology MEd degree program, provides individuals with the opportunity to learn and develop skills appropriate for the field of mental health and counselling psychology. Students will be prepared to work in a variety of applied settings, including educational, vocational, and mental health globally. This degree program is ideally suited to students interested in an international perspective of mental health and counselling. This field will **not** lead to registration as a Certified Canadian Counsellor with the Canadian Counselling and Psychotherapy Association (CCPA), nor will it provide registration with the College of Registered Psychotherapists of Ontario (CRPO). This degree is cohort based and must be pursued **full-time**.

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.
- At least one year of relevant experience.
- Normally, an interview is required prior to admission.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - APD 1902H *Theories and Techniques of Counselling in a Global Context* (0.5 FCE).
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy* (0.5 FCE).
 - APD 1228H *Individual and Group Psychotherapy: Families and Couples Counselling* (0.5 FCE).
 - APD 1268H *Career Counselling and Development: Transitions in Adulthood* (0.5 FCE).
 - APD 1277H *Global Indigenous Healing in Counselling and Psychotherapy* (0.5 FCE).
 - APD 1278H *Cognitive Therapy* (0.5 FCE).
 - APD 1282H *Introduction to Global Mental Health and Counselling Psychology* (0.5 FCE).
 - APD 1283H *Peer and Video-Based Counselling With Practicum Field-Based Learning in Global Mental Health* (0.5 FCE).
 - APD 2293H *Interpretation of Educational Research* (0.5 FCE).
 - APD 5000H *Special Topics in Applied Psychology and Human Development: Master's Level* (0.5 FCE).

Program Length

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

Time Limit

3 years full-time

APHD: Counselling Psychology MEd; Field: Guidance and Counselling

Master of Education

Program Description

The **field in Guidance and Counselling**, within the Counselling Psychology MEd 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 field 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).

The MEd program can be taken 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

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - APD 1202Y *Theories and Techniques of Counselling and Psychotherapy* (1.0 FCE).
 - APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy* (1.0 FCE). The practicum placement is the supervised training component of this course.
 - APD 1214H *Critical Multicultural Practice: Diversity Issues in Counselling and Psychotherapy* (0.5 FCE; prerequisite: APD 1202Y and co-requisite: APD 1203Y+).
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy* (0.5 FCE).
 - APD 1260H *Family Therapy* (0.5 FCE) **or** APD 1261H *Group Work in Counselling and Psychotherapy* (0.5 FCE).

- APD 1262H *Educational Psychological Testing for Counselling* (0.5 FCE).
- APD 1266H *Career Counselling and Development: Transition from School to Work* (0.5 FCE).
- 0.5 FCE in electives.
- A **comprehensive examination**. Upon completion of program course requirements, students will take a comprehensive examination of selected topics from the program curriculum and training.
- **Optional additional practicum**. Students may choose to complete a practicum (APD 1247H *Practicum in Adult Counselling and Psychotherapy*) for an additional 250 hours of field placement concurrent with the required course APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy*. Arrangements for the practicum placement must be made in consultation with and the approval of the Director of Clinical Training. [Find out more about the practicum.](#)

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

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

APHD: Counselling Psychology EdD; Field: Counselling and Psychotherapy

Doctor of Education

Program Description

Counsellor training in this degree program emphasizes the role of the counsellor in educational and community settings with the goal of enhancing their expertise in their professional roles including supervisory and consultative skills and the advanced study of counselling theory and practice. Graduates will be prepared to take leadership positions in the field of counselling and psychotherapy; 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 and college personnel; and as providers of advanced levels of personal counselling in community and educational settings.

The field in Counselling and Psychotherapy will be especially attractive to individuals who have demonstrated a career commitment to the provision of counselling services in an educational and community setting. This professional doctorate is designed to prepare students to refine and build on professional knowledge and practice to support the development of scholar-practitioners to be leaders in their fields of professional practice.

The Doctor of Education (EdD) program is only available on a full-time basis. Students cannot transfer between the EdD and PhD programs.

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 or School and/or Clinical Child 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 and interest to increase and advance their knowledge of counselling and psychotherapy to become leaders in their fields. 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

- **Coursework.** Students must take courses related to the development of advanced competence in counselling, psychotherapy, and mental health theory and practice and become sophisticated consumers of research in these and related fields. Students must complete a minimum of **5.5 full-course equivalents (FCEs)** including a practicum, internship, and thesis (dissertation in practice) as follows:
 - APD 3115H⁺ *Research Proseminar in Counselling and Psychotherapy* (0.5 FCE).
 - APD 3215H *Advanced Psychotherapy Seminar* (0.5 FCE).
 - APD 3261H⁺ *Clinical Supervision and Consultation Practicum* (0.5 FCE).
 - APD 3217Y⁺ *Advanced Practicum in Clinical and Counselling Psychology* (1.0 FCE; Credit/No Credit): complete a 500-hour practicum before the Final Oral Examination.
 - APD 3270H *EdD Internship* (0.5 FCE): complete 500 hours of internship, typically after the Final Oral Examination. All internship arrangements must be made in consultation with the Director of Clinical Training.
 - Three courses, one from each of the following three groupings:
 - APD 3178H *Advanced Cognitive Behaviour Therapy* (0.5 FCE) **or** APD 3160H *Advanced Family Therapy* (0.5 FCE)
 - APD 3260H *Psychodiagnostic Systems* (0.5 FCE) **or** one elective in a special focus of interest (0.5 FCE)
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)* (0.5 FCE) **or** JOI 3228H *Mixed Methods Research Design in Social Sciences (RM)* (0.5 FCE) or an equivalent course (with approval of the Program Chair).

- In addition, students must take 1.0 FCE in their specific area of **focus**.
 - Option 1: Counselling and Psychotherapy for Adults
 - ◊ APD 3163H *Advanced Multicultural Counselling and Psychotherapy* (0.5 FCE)
 - ◊ One elective in a special **focus** of interest (0.5 FCE)
 - Option 2: Counselling and Psychotherapy for Schools and Youth
 - ◊ APD 5284Y *Assessment and Intervention with Culturally and Linguistically Diverse Children, Youth, and Families* (1.0 FCE).

- **Optional additional practicum.** Students may choose to take an optional continuous practicum (APD 3271H⁰ *Additional PhD Practicum*) in conjunction with the required doctoral practicum course APD 3217Y⁺ *Advanced Practicum in Clinical and Counselling Psychology* (Credit/No Credit). [Find out more about the practicum.](#)
- **Thesis (dissertation in practice).** All students must complete a thesis (dissertation in practice), the aim of which is to ensure excellent knowledge of counselling and psychotherapy theory, practice, and policy for professionals working with adults or children/youth to function as leading scholar-practitioners. The thesis (dissertation in practice) should be: a) well conceived, original, and likely to make a sustained contribution to mental health practice; b) involve creativity, innovative methods and techniques, and have the potential to improve practice; c) exemplary, sets high standards in the field, and can be emulated and; d) has the potential for significant public impact. The focus of the thesis (dissertation in practice) is expected to be on contributions to field development or to innovations in practice. The main criteria for evaluation will be those applied to creative professional activity. Students will defend their thesis (dissertation in practice) at a Final Oral Examination.
- Students are full-time and must maintain continuous registration full-time and pay full-time fees until all degree requirements, including the thesis (dissertation in practice), are completed.

Program Length

4 years full-time

Time Limit

6 years full-time

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.*

APHD: Counselling Psychology MEd and EdD; Fields: Counselling and Psychotherapy; Global Mental Health and Counselling Psychology; Guidance and Counselling Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1202Y	Theories and Techniques of Counselling and Psychotherapy
APD 1203Y ⁺	Practicum I: Interventions in Counselling Psychology and Psychotherapy
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 and Psychotherapy
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1229H	Individual and Group Psychotherapy for Counselling
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 1260H	Family Therapy (exclusion: APD 1261H)
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 1267H	Emotion-Focused Therapy (co-requisite: APD 1202Y; exclusion: APD 5004H)
APD 1268H	Career Counselling and Development: Transitions in Adulthood
APD 1271H	Perspectives on Executive Functions in Education: From Theory to Practice
APD 1275H	Special Topics in Counselling Psychology (Master's)
APD 1277H	Global Indigenous Healing in Counselling and Psychotherapy
APD 1278H	Cognitive Therapy
APD 1282H	Introduction to Global Mental Health and Counselling Psychology
APD 1283H	Peer and Video-Based Counselling With Practicum Field-Based Learning in Global Mental Health
APD 1290H	Indigenous Healing in Counselling and Psychoeducation
APD 1902H	Theories and Techniques of Counselling in a Global Context
APD 2286H	Global Indigenous Healing in Counselling and Psychotherapy

APD 2291H	Introduction to Global Mental Health and Counselling Psychology
APD 2293H	Interpretation of Educational Research
APD 2298H	Peer and Video-Based Counselling With Practicum Field-Based Learning in Global Mental Health
APD 3115H ⁺	Research Proseminar in Counselling and Psychotherapy
APD 3160H	Advanced Family Therapy
APD 3163H	Advanced Multicultural Counselling and Psychotherapy
APD 3178H	Advanced Cognitive Behaviour Therapy
APD 3202H	A Foundation of Program Evaluation in Social Sciences (RM)
APD 3215H	Advanced Psychotherapy Seminar
APD 3217Y ⁺	Advanced Practicum in Clinical and Counselling Psychology (Credit/No Credit)
APD 3261H ⁺	Clinical Supervision and Consultation Practicum (pre- or co-requisite: APD 3217Y ⁺)
APD 3268Y	Internship in Clinical and Counselling Psychology
APD 3270H	EdD Internship
APD 3271H ⁰	Additional PhD Practicum
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
JOI 3228H	Mixed Methods Research Design in Social Sciences (RM)
JOI 6000H	Advanced Quantitative Research Methods Courses

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

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.

APHD: Developmental Psychology and Education MA

Master of Arts

Program Description

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 in consultation with their advisor.

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 program is designed for students wishing to pursue an academic or research-based career.

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 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

- **Coursework.** Students must complete **2.0 full-course equivalents (FCEs)** as follows:
 - APD 1209H *Research Methods and Thesis Preparation in Human Development and Applied Psychology* (0.5 FCE)
 - JOI 1288H *Intermediate Statistics and Research Design (RM)* (0.5 FCE)
 - Two elective courses (1.0 FCE total) chosen in consultation with the student's advisor, which may include APD 2252H *Individual Reading and Research* (0.5 FCE).
 - Students who have not taken a previous course in human development are required to take APD 1201H *Child and Adolescent Development* (0.5 FCE) or an equivalent.
 - In addition to their required 2.0 FCEs, students who have not taken a previous course in statistics are required to take JOI 1287H *Introduction to Applied Statistics* or an equivalent course.
- **Master's thesis.**

Program Length

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

Time Limit

3 years full-time

APHD: Developmental Psychology and Education MEd

Master of Education

Program Description

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. The Master of Education (MEd) program is designed for the reflective teacher or other practitioner in education or related fields. This is a degree primarily designed for those working in applied settings and it does not require a research thesis.

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 MEd program can be taken 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 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 at least one year of relevant professional experience.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - APD 1200H *Foundations of Human Development and Education* (0.5 FCE).
 - APD 2293H *Interpretation of Educational Research* (0.5 FCE).
 - 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 full-time (typical registration sequence: F/W/S/F);
10 sessions part-time

Time Limit

3 years full-time;
6 years part-time

APHD: Developmental Psychology and Education PhD

Doctor of Philosophy

Program Description

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 courses in human development and research methodology. Elective courses, chosen in consultation with their advisor, 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 PhD program is designed for students wishing to pursue an academic or research-based career.

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. 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 full-time and flexible-time options are the same.

PhD students have the option of completing an emphasis in Early Learning. Please see details below.

PhD Program

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.
- 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.

Program Requirements

- **Coursework.** Students must complete **2.0 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 in electives (2 X 0.5 FCE).
 - The 2.0 FCEs are normally completed in Year 1 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.**
 - The purposes of the comprehensive examination are threefold:
 - To demonstrate the student's ability to work independently within an area of concern in human development.
 - To gain knowledge of a new area, a new technique or method in a specified area in human development.
 - To demonstrate the ability to integrate information at the accepted standard for a PhD student.
 - Students have two options when fulfilling their PhD comprehensive requirements:
 - Option 1: Empirical Research Paper or
 - Option 2: Internship.
- **A thesis and Doctoral Final Oral Examination.**
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time)

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.
- 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.
- 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

- **Coursework.** Students must complete **2.0 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 in electives (2 X 0.5 FCE).
 - The 2.0 FCEs are normally completed in Year 1 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.**
 - The purposes of the comprehensive examination are threefold:
 - To demonstrate the student's ability to work independently within an area of concern in human development.
 - To gain knowledge of a new area, a new technique or method in a specified area in human development.
 - To demonstrate the ability to integrate information at the accepted standard for a PhD student.
 - Students have two options when fulfilling their PhD comprehensive requirements:
 - Option 1: Empirical Research Paper or
 - Option 2: Internship.
- **A thesis and Doctoral Final Oral Examination.**

- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

6 years

Time Limit

8 years

APHD: Developmental Psychology and Education PhD Emphasis

Emphasis: Early Learning

Students interested in the Early Learning emphasis should consult with the Graduate Coordinator.

- Students wishing to complete the emphasis in Early Learning will include the following courses (**2.0 full-course equivalents [FCEs]**) in their overall PhD program:
 - APD 3200H *Researching Proseminar in Human Development and Applied Psychology* (0.5 FCE).
 - APD 3273H *Researching Early Learning* (0.5 FCE): 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* (0.5 FCE).
 - APD 3274H *Early Learning and Thesis Development* (0.5 FCE).

APHD: Developmental Psychology and Education MA, MEd, and PhD Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1200H	Foundations of Human Development and Education
APD 1201H	Child and Adolescent Development (prerequisite: at least one of APD 1233H or APD 1249H, or permission of the instructor)
APD 1206H	Mind, Brain, and Instruction (prerequisite: at least one of APD 1233H or APD 1249H, or permission of the instructor; exclusion: APD 5012H)
APD 1209H	Research Methods and Thesis Preparation in Human Development and Applied Psychology
APD 1210H	Research Practicum (RM)
APD 1211H	Psychological Foundations of Early Development and Education

APD 1213H	Psychology and Education of Students with ADHD (prerequisite: at least one of APD 1281H, APD 2280H, or APD 1297H, or permission of the instructor; exclusion: APD 5001H)
APD 1217H	Foundations of Proactive Behavioural and Cognitive-Behavioural Intervention with Children
APD 1231H	Mindful Self-Compassion for Educators (exclusion: APD 5018H Special Topics in Applied Psychology and Human Development: Master's Level)
APD 1233H	Cognitive Development and Applications
APD 1236H	Developmental Psychopathology
APD 1256H	Child Abuse: Intervention and Prevention
APD 1271H	Perspectives on Executive Functions in Education: From Theory to Practice
APD 1272H	Play and Education
APD 1280H	Symbolic Development and Learning
APD 1281H	Education Exceptionalities, Special Education, and Adaptive Instruction
APD 1286H	Foundations of Literacy Development for School Age Children
APD 1289H	Multivariate Analysis with Applications
APD 1290H	Indigenous Healing in Counselling and Psychoeducation
APD 1292H	Instrument Design and Analysis
APD 1294H	Technology, Psychology, and Play
APD 1295H	Adolescent Mental Health: An Examination of Risk and Resilience (prerequisites: APD 1249H and APD 1297H)
APD 1296H	Assessing School-Aged Language Learners
APD 1297H	Mental Health in the Classroom: How Educators Can Help Our Most Vulnerable Students
APD 1298H	Imagination, Reasoning, and Learning
APD 1299H	Language Acquisition and Development in Early Childhood
APD 2275H	Technology for Adaptive Instruction and Special Education
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 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 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
JDS 1249H	Social-Emotional Development and Applications
JDS 3000H	Advanced Methods in Developmental Science
JOI 1287H	Introduction to Applied Statistics (RM)
JOI 1288H	Intermediate Statistics and Research Design (RM)

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

APHD: School and Clinical Child Psychology MA

Master of Arts

Program Description

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 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.

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

- **Coursework.** Students must complete **5.0 FCEs** (including a practicum course) and a thesis.
 - APD 1205H *Ethical Issues in Applied Psychology* (0.5 FCE).
 - APD 1215H *Psychological Assessment of School-Aged Children* (0.5 FCE).
 - APD 1216H *Psychoeducational Assessment* (0.5 FCE).
 - APD 1218H *Seminar and Practicum in School-Based Assessment, Consultation, and Intervention* (0.5 FCE). The practicum portion consists of 250 hours (one day a week from September to June) and is normally taken in a school setting.
 - APD 1222H *Approaches to Psychotherapy-Lifespan* (0.5 FCE).
 - APD 1236H *Developmental Psychopathology* (0.5 FCE).
 - APD 1285H *Psychology and Education of Children with Learning Disabilities* (0.5 FCE).
 - JOI 1288H *Intermediate Statistics and Research Design (RM)* (0.5 FCE).
 - APD 3240H *Advanced Social and Emotional Assessment Techniques* (0.5 FCE).
 - 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*.
- **Thesis.**
- A listing of approved Cognitive/Affective, Social, and Biological bases of behaviour courses is available on the [departmental website](#) and in the Applied Psychology and Human Development program guidelines.
- In addition to the above course requirements, students who have not taken a previous child development course in their undergraduate degree program will be required to take APD 1201H *Childhood and Adolescent Development*.
- Students who have not taken a previous statistics course or its equivalent must take JOI 1287H *Introduction to Applied Statistics* (RM).
- 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

APHD: School and Clinical Child Psychology PhD

Doctor of Philosophy

Program Description

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 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.

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.
- 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.

- Cognate course requirements. 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: Biological Bases of Behaviour, Cognitive/Affective Bases of Behaviour, Social Bases of Behaviour, and History and Systems of Psychology.

Program Requirements

- Students must complete **5.5 FCEs**, including a doctoral practicum course and an internship course, as follows:
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)* (0.5 FCE).
 - APD 3222H *Approaches to Psychotherapy Across the Lifespan* (0.5 FCE), normally taken in Year 1.
 - APD 3241H+ *Seminar and Practicum in Clinical Assessment and Intervention*, normally taken in Year 2. 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. Students must complete APD 3241H+ in order to remain in good standing and be permitted to continue in the program.
 - APD 3260H *Psychodiagnostic Systems* (0.5 FCE).
 - APD 5284Y+ *Assessment and Intervention with Culturally and Linguistically Diverse Children, Youth, and Families* (1.0 FCE).
 - 0.5 FCE from the Psychosocial Interventions course menu:
 - APD 3224H *Advanced Proactive Behavioural and Cognitive-Behavioural Interventions** or
 - APD 3231H *Psychodynamic Bases of Therapy**.
 - * Note: each course is offered every other year. Students interested in other courses that may fulfil the Psychosocial Interventions requirement must receive approval from the SCCP Program Coordinator.
 - 1.0 elective FCE.
 - APD 3242Y *Internship in School and Clinical Child Psychology* (1.0 FCE). 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**. The purpose of the SCCP comprehensive examination is to:
 - Ensure an adequate level of psychological knowledge for professional functioning as a practitioner, academic, and/or researcher.
 - Demonstrate an ability to integrate information at the accepted standard for a doctoral student.
- 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** (see Cognitive/Affective, Social, or Biological Bases of Behaviour; Admission Requirements above), students are required to take a 0.5 FCE course from the applicable course menu, which can be found on the [departmental 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 who have not taken a previous child development course must take APD 1201H *Childhood and Adolescent Development*. Students who have not taken a previous statistics course or

its equivalent must take JOI 1287H *Introduction to Applied Statistics (RM)*.

- 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.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.

Program Length

5 years full-time

Time Limit

6 years full-time

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

APHD: School and Clinical Child Psychology MA and PhD Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1202Y	Theories and Techniques of Counselling and Psychotherapy
APD 1205H	Ethical Issues in Applied Psychology
APD 1207H	Counselling Topics in Sexual Orientation and Gender Identity Diversity
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 1222H	Approaches to Psychotherapy-Lifespan
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1233H	Cognitive Development and Applications
APD 1236H	Developmental Psychopathology
APD 1245H	Brief Strategies in Counselling and Psychotherapy
APD 1251H	Reading in a Second Language
APD 1256H	Child Abuse: Intervention and Prevention

APD 1271H	Perspectives on Executive Functions in Education: From Theory to Practice
APD 1285H	Psychology and Education of Children with Learning Disabilities
APD 1290H	Indigenous Healing in Counselling and Psychoeducation
APD 1291H	Addictive Behaviours: Approaches to Assessment and Intervention
APD 1295H	Adolescent Mental Health: An Examination of Risk and Resilience (prerequisites: APD 1249H and APD 1297H)
APD 1299H	Language Acquisition and Development
APD 3202H	A Foundation of Program Evaluation in Social Sciences (RM)
APD 3204H	Contemporary History and Systems in Human Development and Applied Psychology
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 Neuropsychology
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
APD 5284Y ⁺	Assessment and Intervention with Culturally and Linguistically Diverse Children, Youth, and Families
JDS 1233H	Cognitive Development and Applications
JOI 1287H	Introduction to Applied Statistics (RM)
JOI 1288H	Intermediate Statistics and Research Design (RM)

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

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

Architecture, Landscape, and Design

Architecture, Landscape, and Design: Introduction

Faculty Affiliation

Architecture, Landscape, and Design

Degree Programs

Architecture

MArch

Architecture, Landscape, and Design

PhD

Landscape Architecture

MLA

Urban Design

MUD

Visual Studies

MVS

- Fields:
 - Curatorial Studies;
 - Studio

Collaborative Specializations

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

- [Knowledge Media Design](#)
 - Architecture, MArch
 - Landscape Architecture, MLA
 - Urban Design, MUD
- [Sexual Diversity Studies](#)
 - Visual Studies, MVS

Overview

The Faculty of Architecture, Landscape, and Design offers professional graduate programs in areas characterized by exceptional change. Globalization and the convergence of new

media, new materials, and new building technologies have led to significant economic, technological, and aesthetic shifts. As a leading school of architecture, landscape, forestry, and design in North America, the Faculty is responding to these changing realities.

The greater Toronto region serves as a dynamic laboratory for critical studies and the exploration of design alternatives of international significance. Students also have access to Toronto's large professional design community. Students and faculty are incredibly cosmopolitan in sensibility, hailing from every part of the world, with their work crossing geographic and cultural boundaries. The city's multicultural networks and international connections make the Faculty a powerful place to start a career.

The Faculty has grown exceptionally in recent years with the hiring of new faculty and the revamping of its master's programs. With architecture, landscape architecture, forestry, urban design, and visual studies sharing facilities, the Faculty benefits from rich collaborations and crossover between related disciplines.

The growth has led to the recent construction of a new building which doubles the Faculty's size and creates a new and unprecedented centre at the University of Toronto for education, research, and public outreach on architecture, urbanism, visual arts, landscape, and conservation.

Contact and Address

Web: www.daniels.utoronto.ca
 Email: graduate@daniels.utoronto.ca
 Telephone: (416) 946-3897

John H. Daniels Faculty of Architecture, Landscape, and Design
 University of Toronto
 1 Spadina Crescent
 Toronto, Ontario M5S 2J5
 Canada

Architecture, Landscape, and Design: Graduate Faculty

Full Members

Anderson, Christy - BA, MA, PhD
 Chaouni, Aziza - BScCE, MArch
 Farhat, Georges - MArch, PhD
 Harwood, John - PhD
 Jakubiec, Alstan - BArch, MArch, DPhil
 Kesik, Ted - BASc, MAsC, DPhil
 LeCavalier, Jesse - BA, MArch, DSc
 Levit, Robert - BA, MArch (**Associate Dean, Academic**)
 Liu, An Te - BA, MArch
 Lloyd, Sue - BA, MFA
 Lobsinger, Mary Louise - BArch, BES, BA, MES, PhD
 Margolis, Liat - BFA, MLA (**Associate Dean, Research**)
 McCarney, Patricia - BA, MCP, PhD
 North, Alissa - BLA, MLA
 Shim, Brigitte - BES, BArch
 Sommer, Richard - BFA, BArch, MArch
 Stankievech, Charles - BA, MFA

Verderber, Stephen - BSc, AA, MArch, PhD
 White, Mason - BArch, MArch
 Williamson, Shane - BSc, MArch
 Wolff, Jane - AB, MLA
 Wright, Robert - BSc, MLA (*Interim Dean*)

Members Emeriti

Baird, George - BArch

Associate Members

Akiyama, Mitchell - BFA, MFA, PhD
 Boigon, Brian - BArch
 Carpenter, Tei - BA, MArch
 Fischer, Barbara - BFA, MA
 Fong, Steven - BArch, MArch
 Hlady, Marla - BFA, MFA
 Holzman, Justine - BA, MLA
 Kim, Jeannie - AB, MArch, MA
 Kwan, Will - BA, MFA
 Masoud, Fadi - BES, MLA
 Miller, Laura J. - BA, MArch
 Mostafa, Heba - AM, PhD
 Moukheiber, Carol Leila - BArch, BA
 Peters, Brady - BS, BES, MArch, PhD
 Petricone, Pina - MArch
 Shnier, John - BArch, BES
 Sterling, Mark - BES, BArch

Architecture, Landscape, and Design: Architecture MArch

Master of Architecture

Program Description

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.

MArch Program (3-Year Option)

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.
- A bachelor's degree (BA, BSc, BArch, BES, BFA, BCom) with a final-year grade point average of at least mid-B.

- Recommended: courses in secondary calculus, secondary physics, and university-level architectural history (0.5 full-course equivalent [FCE]).
- Some preparation or experience in architectural design or the creative arts is encouraged, but not required; e.g., hand or digital drawing, film or animation, graphic design or sculpture. This program is suitable for those without formal training in design or the arts; graduates of any discipline are encouraged to apply.
- 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. See [General Regulations section 4.3](#) for requirements.

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. An FZ (fail) in any one course, or a B. grade in two 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- Students who complete their Master of Architecture program and are eligible to convocate will have their relevant information automatically forwarded by the John H. Daniels Faculty of Architecture, Landscape, and Design to the [Canadian Architectural Certification Board \(CACB\)](#), unless the student opts out in writing. The certification confirms the individual's academic qualifications in compliance with the Canadian Education Standard (CES) in Architecture for entry to the profession. CACB grants and issues certification to applicants who meet the Education Standard and maintains a National Register of those certified and confidential records of all pertinent documentation for all applicants.
- **Coursework.** Students must complete a total of **16.0 full-course equivalents (FCEs)** as follows:
 - 13.5 FCEs in core courses:
 - 4.0 FCEs: Design Studio
 - 2.0 FCEs: Design Studio Research
 - 0.5 FCE: Research Methods
 - 0.5 FCE: Visual Communication
 - 1.0 FCE: History
 - 1.0 FCE: Design Technology
 - 3.5 FCEs: Technics and Planning
 - 1.0 FCE: Professional Practice
 - 2.5 elective FCEs, of which 0.5 FCE must be in the History category.

Program Length

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

Time Limit

4 years full-time

MArch Program (2-Year: Second-Year Advanced-Standing Option)

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 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 20th-century), and two courses in architectural technology and ecology.
- 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. See [General Regulations section 4.3](#) for requirements.

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. An FZ (fail) in any one course, or a B- grade in two 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.

- Students who complete their Master of Architecture program and are eligible to convocate will have their relevant information automatically forwarded by the John H. Daniels Faculty of Architecture, Landscape, and Design to the [Canadian Architectural Certification Board \(CACB\)](#), unless the student opts out in writing. The certification confirms the individual's academic qualifications in compliance with the Canadian Education Standard (CES) in Architecture for entry to the profession. CACB grants and issues certification to applicants who meet the Education Standard and maintains a National Register of those certified and confidential records of all pertinent documentation for all applicants.
- **Coursework.** Students must complete a total of **10.5 full-course equivalents (FCEs)** as follows:
 - 8.0 FCEs in core courses:
 - 2.0 FCEs: Design Studio
 - 2.0 FCEs: Design Studio Research
 - 0.5 FCE: Research Methods
 - 0.5 FCE: Design Technology
 - 2.0 FCEs: Technics and Planning
 - 1.0 FCE: Professional Practice
 - 2.5 elective FCEs, of which 0.5 FCE must be in the History category.

Program Length

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

Time Limit

4 years full-time

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

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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements.
- The post-professional advanced-standing option does not grant a professionally accredited degree.

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. An FZ (fail) in any one course, or a B- grade in two 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- Each student's program of study must receive the approval of the Program Director and, in general, shall consist of a research or design project on which a thesis must be submitted. Faculty members have research expertise in the following areas of interest, which students may pursue: Computation and Fabrication; Health and Society; and Sustainability and Environment.
- Coursework.** Students must complete a total of **6.0 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs in core courses:
 - 0.5 FCE: ALA 4010H *Field Course*
 - 0.5 FCE: ALA 4020H *Thesis Preparation*
 - 1.0 FCE: ALA 4021Y *Thesis I*
 - 1.5 FCE: ALA 4022Y *Thesis II*
 - 0.5 FCE: ALA 4030H *Colloquium*
 - 2.0 elective FCEs, of which 1.0 FCE must be in the student's area of interest.

Program Length

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

Time Limit

3 years full-time

Architecture, Landscape, and Design: Architecture MArch Courses

Not all electives are offered every year. [Please check the timetable for current listings available.](#)

Core Courses

Design Studio

ARC 1011Y	Design Studio 1
ARC 1012Y	Design Studio 2
ARC 2013Y	Design Studio 3
ARC 2014Y	Design Studio 4

Design Studio Research

ARC 3020Y	Design Studio Research 1 (prerequisite: ARC 2014Y) or
LAN 3016Y	Design Studio Options or
URD 2013Y	Urban Design Studio Options
ARC 3021Y	Design Studio Research 2 (prerequisite: ARC 3020Y)

Design Technology

ARC 1022H	Design Technology 1
ARC 2023H	Design Technology 2

History

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

Post Professional

ALA 4010H	Field Course
ALA 4020H	Thesis Preparation
ALA 4021Y	Thesis I (prerequisite: ALA 4020H)
ALA 4022Y	Thesis II (prerequisite: ALA 4021Y)
ALA 4030H	Colloquium (prerequisites: ALA 4010H and ALA 4020H; exclusion: ALD 4030H)

Professional Practice

ARC 3051H	Professional Practice 1
ARC 3052H	Professional Practice 2

Research Methods

ARC 2017H	Research Methods
-----------	------------------

Technics and Planning

ARC 1041H	Building Science 1
ARC 1043H	Building Science 2
ARC 1046H	Structures 1
ARC 2042H	Site Engineering and Ecology

ARC 2045H	Building Science 4
ARC 2046H	Structures 2
ARC 2047H	Building Science 3

Visual Communication

ARC 1021H	Visual Communications
-----------	-----------------------

Elective Courses

Architecture and Health

ARC 3600H	Selected Topics in the History and Theory of Architecture and Health
-----------	--

Computer Modelling

ARC 3200H	Selected Topics in Advanced Computer Applications
-----------	---

Design

ARC 1013H	Graphic Design
ARC 1100H	Selected Topics in Design
ARC 2015H	Global Architecture: Urban Analysis and Documentation

History and Theory

ARC 1035H	Toronto Architecture and Urban Form
ARC 3031H	Analysis of Architectural Form
ARC 3038H	Global Architecture: History and Theory
ARC 3100H	Selected Topics in Urban Design
ARC 3300H	Selected Topics in Architectural History and Theory

Independent Study

ARC 3039H	Independent Study and Research in Architecture
-----------	--

Other

ARC 3700H	Selected Topics in Architecture
ARC 3705H	Selected Topics in Architecture
ARC 3706H	Selected Topics in Architecture

Professional Practice

ARC 4500H	Selected Topics in Professional Practice
-----------	--

Technics and Planning

ARC 3400H	Selected Topics in Architecture and Technology
ARC 3500H	Selected Topics in Sustainable Design

Architecture, Landscape, and Design: Architecture, Landscape, and Design PhD

Doctor of Philosophy

Program Description

The PhD program in Architecture, Landscape, and Design engages students in advanced research from an intra-disciplinary approach to architecture, landscape, and urban design. The program addresses cultural, social, environmental, historical, and technological questions of the art and design disciplines and the built environment. The program is intended for students entering careers that demand a syncretic approach to research in design and related disciplines. This full-time program normally begins in September.

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 master's degree with an average grade of at least A-. A professional degree in a design discipline is highly desirable, but applicants with a master's degree in a related discipline in the humanities and social sciences may be considered. An additional specialized program of study may be proposed for successful applicants without professional training.
- A writing sample in the form of a substantial research paper or publication.
- Recommendation from three referees.
- A two-page proposal that indicates a topic of research within a design discipline, possible sub-field(s) (if desired), and potential supervisors. Although letters of commitment from faculty members are not required, the proposed topic must be congruent with the interests and expertise of at least one member of the PhD standing committee. The admissions committee will obtain commitment from the potential supervisor before admitting an applicant, and the applicant will be informed of this in the letter of offer.
- A portfolio of creative work may also be requested where it is relevant to the applicant's proposed area of research and the degree to which it may require technical skills typically gained in a professional degree program. For example, this could pertain to an applicant whose proposal includes producing renderings. Questions about whether to include a portfolio in an application should be directed to the Program Director or the applicant's prospective supervisor prior to the application deadline.

Program Requirements

- **Coursework.** Students must complete a total of **6.0 full-course equivalents (FCEs)** including:
 - ALD 4030H *Doctoral Research Colloquium* (0.5 FCE).
 - ALD 4040H *Theories and Methods* (0.5 FCE).
 - ALD 4050H *Research Practicum* (0.5 FCE; Credit/No Credit).
 - ALD 4060H *Preparation for Thesis* (0.5 FCE; Credit/No Credit).

- 4.0 elective FCEs chosen from advanced (3000 and 4000 series) graduate-level courses offered by the John H. Daniels Faculty of Architecture, Landscape, and Design. Depending on their field of study, students may also take advanced graduate courses in cognate disciplines across the University, pending the approval of the Faculty and in consultation with their supervisors.
- In order to complete the chosen thesis topic, students may be required to take additional courses or acquire other skills. This will be determined by the supervisor and the Director of Graduate Studies and may include competence in another language.
- **Comprehensive examinations.** All PhD students must complete a two-part comprehensive examination normally before their second Summer session. Successful completion of the examinations is required in order to achieve PhD candidacy. The exam's specific nature and scope are to be determined in consultation with the student's supervisor.
 - The first part, normally to be completed in the Summer session of Year 1, is to achieve breadth in the primary area of study so that the student can teach and conduct research within a larger chosen area within the design disciplines. This will usually involve preparing an annotated bibliography in consultation with the supervisor in the early Summer and writing the exam at the end of the Summer. The first part of the exam will consist of a written response to three questions, to be answered during a three-hour writing session that takes place on-site at the J. H. Daniels Faculty.
 - The second part, normally to be completed during the second session of Year 2, is to achieve depth in a secondary area of study, within the Faculty or beyond, so that the student can master the context for the advanced research they plan to undertake for their thesis. For the secondary area of study, most students are expected to specialize in one area of study of the design disciplines (for example, architectural history). Alternatively, for this requirement students may focus on a secondary area of study. (For example, computational technologies.) This exam may be administered by a faculty member other than the supervisor, to be determined by the student in consultation with their supervisor. This second part can take one of two formats:
 - a second annotated bibliography to achieve depth in a sub-section of the primary area of study;
 - a course syllabus with readings and outlines of lectures, themes for tutorial discussions, as well as a minimum of three lectures drawn from across the syllabus.
 - Both parts of the examination are marked on a pass/fail basis. An oral examination will follow the completion of the second part of the exam. The oral examination will last no more than 90 minutes.
 - A second attempt of the comprehensive examinations will be allowed within six months, only on the recommendation of the student's supervisor. If the student fails again, their registration will be terminated. The student must pass both parts of the comprehensive examinations before permission to submit a thesis proposal will be granted.
- **Thesis.** Following completion of the comprehensive exam, the student's supervisory committee will be formed. This will take place no later than the Summer of Year 2 in order to allow the committee to advise on the development of the student's thesis proposal.
 - No later than the beginning of Year 3, the student must submit to the PhD program director a **thesis proposal**

that has been approved by the student's supervisory committee. Once the thesis proposal has been approved, the student will achieve candidacy.

- The doctoral candidate will then proceed to researching and writing the thesis. The student must meet with their thesis supervisory committee within three months of submitting the thesis proposal; thereafter, the candidate is required to meet at least once a year with the supervisory committee.
- By the end of Year 4, the candidate should **complete a thesis** based on original research and the thesis should make a significant contribution to the area of study. The supervisory committee must approve the completed thesis before it is submitted for examination.
- The candidate will defend the thesis at the **Doctoral Final Oral Examination**.

Program Length

4 years full-time

Time Limit

6 years full-time

Architecture, Landscape, and Design: Architecture, Landscape, and Design PhD Courses

Core Courses

ALD 4030H	Doctoral Research Colloquium
ALD 4040H	Theories and Methods
ALD 4050H	Research Practicum (Credit/No Credit)
ALD 4060H	Preparation for Thesis (Credit/No Credit)

Elective Courses

Not all electives are offered every year. Please check the timetable for [current listings](#) available from the Summer session. Electives are to be selected from advanced (3000 and 4000 series) graduate-level courses offered at the Daniels or other Faculties. These include the following:

ARC 3031H	Analysis of Architectural Form
ARC 3100H	Selected Topics in Urban Design
ARC 3200H	Selected Topics in Advanced Computer Applications
ARC 3300H	Selected Topics in Architectural History and Theory
ARC 3400H	Selected Topics in Architecture and Technology
ARC 3500H	Selected Topics in Sustainable Design
ARC 3600H	Selected Topics in the History and Theory of Architecture and Health
ARC 3700H	Selected Topics in Architecture
ARC 4500H	Selected Topics in Professional Practice
LAN 3900H	Landscape Architecture Topics: History, Theory, Criticism

VIS 3001H	Advanced Readings in Visual Studies
VIS 3002H	Advanced Readings in Curatorial Studies
VIS 3003H	Special Topics in Art and Culture

Architecture, Landscape, and Design: Landscape Architecture MLA

Master of Landscape Architecture

Program Description

The Master of Landscape Architecture (MLA) is a professional program that focuses on urban and regional landscape architecture within a studio-based curriculum. Integrated courses in design; visual communication and modelling; history, theory, and criticism; site engineering and material technologies; horticulture, ecology, hydrology; professional practice and research methods seminars, as well as options for electives, provide a comprehensive professional education in landscape architecture. The program prepares students with a strong base in the fundamentals of the profession, while fostering innovative thinkers able to work collaboratively with allied disciplines, in preparation for becoming the next generation of leaders in landscape architecture.

MLA Program (3-Year Option)

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.
- A bachelor's degree (such as BA, BSc, BASc, BES, BFA, BCom) with a minimum average of mid-B.
- Some preparation or experience in architectural design or the creative arts is encouraged, but not required; e.g., hand or digital drawing, film or animation, graphic design or sculpture. This program is suitable for those without formal training in design or the arts; graduates of any discipline are encouraged to apply.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- Students study full-time, taking all required courses in each given session. An FZ (fail) in any one course, or a B- grade in two 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.

- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- **Coursework.** Students must complete a total of **15.5 full-course equivalents (FCEs)** as follows:
 - 14.5 FCEs in core courses:
 - 4.0 FCEs: Design Studio
 - 1.0 FCE: Design Studio Options
 - 1.5 FCEs: Design Studio Thesis
 - 2.0 FCEs: Visual Communication
 - 2.0 FCEs: History, Theory, Criticism
 - 1.5 FCEs: Technology
 - 1.5 FCEs: Environment
 - 1.0 FCE: Professional Practice and Research Methods
 - 1.0 elective FCE.

Program Length

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

Time Limit

3 years full-time

MLA Program (2-Year: Second-Year Advanced-Standing Option)

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 in landscape architecture, architecture, architectural studies, or environmental design, or a comparable degree focusing on the design of landscapes and 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.
- Minimum previous completion of three design studio courses, two courses in digital visual representation (including Rhinoceros, Illustrator, Laser Cutting), two courses in landscape architecture history and theory (one in 20th-century), and two courses in landscape architecture site engineering (i.e., site grading) and planting design, horticulture, urban ecology, or forest ecology.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- Students study full-time, taking all required courses in each given session. An FZ (fail) in any one course, or a B- grade in two 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- Coursework.** Students must complete a total of **10.5 full-course equivalents (FCEs)** as follows:
 - 9.5 FCEs in core courses as follows:
 - 2.0 FCEs: Design Studio
 - 1.0 FCE: Design Studio Options
 - 1.5 FCEs: Design Studio Thesis
 - 1.0 FCE: Visual Communication
 - 0.5 FCE: History, Theory, Criticism
 - 1.0 FCE: Technology
 - 1.5 FCEs: Environment
 - 1.0 FCE: Professional Practice and Research Methods
 - 1.0 elective FCE.

Program Length

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

Time Limit

3 years full-time

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

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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements.
- The post-professional advanced-standing option does not grant a professionally accredited degree.

Program Requirements

- Students study full-time, taking all required courses in each given session. An FZ (fail) in any one course, or a B- grade in two 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- Each student's program of study must receive the approval of the Program Director and, in general, shall consist of a research or design project on which a thesis must be submitted. Faculty members have research expertise in the following areas of interest, which students may pursue: Computation and Fabrication; Health and Society; and Sustainability and Environment.
- Coursework.** Students must complete a total of **6.0 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs in core courses:
 - 0.5 FCE: ALA 4010H *Field Course*
 - 0.5 FCE: ALA 4020H *Thesis Preparation*
 - 1.0 FCE: ALA 4021Y *Thesis I*
 - 1.5 FCE: ALA 4022Y *Thesis II*
 - 0.5 FCE: ALA 4030H *Colloquium*
 - 2.0 elective FCEs, of which 1.0 FCE must be in the student's area of interest.

Program Length

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

Time Limit

3 years full-time

Architecture, Landscape, and Design: Landscape Architecture MLA Courses

Not all electives are offered every year. [Please check the timetable for current listings available.](#)

Core Courses

Design Studio

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

URD 2013Y or ARC 3020Y	Urban Design Studio Options or Design Studio Research 1
LAN 3017Y	Design Studio Thesis

Environment

LAN 1041H	Field Studies 1
LAN 1043H	Field Studies 2
LAN 2045H	Landscape Ecology I
LAN 2046H	Landscape Ecology II
LAN 2047H	Landscape Hydrology I
LAN 2048H	Landscape Hydrology II

History, Theory, Criticism

LAN 1031H	History, Theory, Criticism 1
LAN 1032H	History, Theory, Criticism 2
LAN 1037H	Plants and Design I
LAN 1038H	Plants and Design II
LAN 2037H	Contemporary Landscape Theory

Post Professional

ALA 4010H	Field Course
ALA 4020H	Thesis Preparation
ALA 4021Y	Thesis I (prerequisite: ALA 4020H)
ALA 4022Y	Thesis II (prerequisite: ALA 4021Y)
ALA 4030H	Colloquium (prerequisites: ALA 4010H and ALA 4020H; exclusion: ALD 4030H)

Proseminar

LAN 3051H	Landscape Architecture Research Methods
LAN 3052H	Professional Practice

Technology

LAN 1047H	Site Engineering I
LAN 1048H	Site Engineering II
LAN 2042H	Landscape Materials, Assemblies, Techniques
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

Design

LAN 3200H	Landscape Architecture Topics: Design
-----------	---------------------------------------

Environment

LAN 3300H	Landscape Architecture Topics: Environment
LAN 3500H	Landscape Architecture Topics: Plants

History, Theory, Criticism

LAN 3039H	Independent Study
LAN 3700H	Landscape Architecture Topics: Society
LAN 3900H	Landscape Architecture Topics: History, Theory, Criticism

Proseminar

LAN 3600H	Landscape Architecture Topics: Practice
-----------	---

Technology

LAN 3400H	Landscape Architecture Topics: Techniques
LAN 3800H	Landscape Architecture Topics: Technology

Visual Communication

LAN 2100H	Landscape Architecture Topics: Communication
-----------	--

Architecture, Landscape, and Design: Urban Design MUD

Master of Urban Design

Program Description

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.

MUD Program (2-Year)

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.
- A professional degree in architecture (BArch or MArch) or landscape architecture (BLA, MLA). Applicants with a degree in urban planning (MCP, MUP, or MScPI) may be considered for admission if they are able to demonstrate design potential in their application portfolio. Applicants may be required to complete design and/or visual communication workshops before they begin the MUD program, in order to prepare them for the design studio component of the MUD curriculum.
- All applicants must submit a portfolio of design work for review. Admission is based on the merits of the applicant's overall academic background and strength of design portfolio as evaluated by the admissions committee.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- Students study full-time, taking all required courses in each given session. An FZ (fail) in any one course, or a B- grade in two studio courses or in any three courses normally results 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.
- Progress in the program is dependent upon satisfactory completion of studio and required core courses in sequence. Exceptions can be made at the discretion of the Program Director, and in consultation with the Office of the Registrar and Student Services in the case of accessibility.
- **Coursework.** Students must complete a total of **10.0 full-course equivalents (FCEs)** as follows:
 - 7.5 FCEs in core courses:
 - 1.0 FCE: Design Studio
 - 2.0 FCEs: Option Design Studio
 - 0.5 FCE: Thesis Preparation and Research
 - 1.5 FCEs: Design Thesis
 - 1.0 FCE: History, Theory, Criticism
 - 1.5 FCEs: other courses
 - 2.5 elective FCEs, of which 1.5 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

Architecture, Landscape, and Design: Urban Design MUD Courses

Not all electives are offered every year. [Please check the timetable for current listings available.](#)

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 or LAN 3016Y or ARC 3020Y	Urban Design Studio Options or Design Studio Options or Design Studio Research 1
URD 2015Y	Urban Design Studio Thesis

History, Theory, Criticism

URD 1031H	The History of Toronto Urban Form
URD 1041H	Introduction to Urban Design Theory

Other

URD 1021H	Urban Design Visual Communications
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

History, Theory, Criticism

URD 1200H	Selected Topics in History and Theory of Urban Design
URD 1500H	Selected Topics in Urban Design

Other

URD 1022H	Topics in Computer-Aided Urban Design
URD 1042H	Urban Design and Environmental Systems
URD 1300H	Selected Topics in Digital Urbanism

Architecture, Landscape, and Design: Visual Studies MVS

Master of Visual Studies

Program Description

The Master of Visual Studies (MVS) is a two-year, full-time professional program with two fields:

- Curatorial Studies: prepares students for contemporary curatorial practice in the visual arts
- Studio: prepares students to further their visual art practice.

The program normally begins in September.

Field: Curatorial 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 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 curatorial to be undertaken during the two-year program;
 - full curriculum vitae (CV) with details of exhibition, professional activity, and education;
 - documentation of recent curatorial work;
 - three letters of recommendation;
 - a critical writing sample;
 - transcripts;
 - a portfolio of previous work dependent on the field of future study.
- Applicants must present a portfolio with documentation of exhibitions including exhibition brochures, curatorial essays, announcement cards, and/or catalogues from curatorial work.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- **Coursework.** Students must complete a total of **6.0 full-course equivalents (FCEs)** as follows:
 - 4.5 FCEs from the approved course list for curatorial studies
 - 1.5 FCEs in electives. 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 Curatorial Studies students are supervised by an **Advisory Panel** made up of the Director of the Visual Studies program (or their designate), a graduate faculty member who will be considered to be the student's Principal Advisor, one of the University of Toronto's gallery directors, and an external reader chosen upon approval of the Principle Advisor and Program Director.
- The graduating **thesis project** is composed of an exhibition and a qualifying paper.
- **MVS Proseminar**, a non-credit course.
- An FZ (fail) in any one course or a B- grade in any two courses normally results in a recommendation to the School of Graduate Studies to terminate the student's registration in the degree program.

Program Length

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

Time Limit

3 years full-time

Field: Studio

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 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 to be undertaken during the two-year program;
 - full curriculum vitae (CV) with details of exhibition, professional activity, and education;
 - documentation of recent studio work;
 - three letters of recommendation;
 - a critical writing sample;
 - transcripts;
 - a portfolio of previous work dependent on the field of future study.
- Applicants must present a portfolio with documentation of their artworks. 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), and circumstances of display (in the case of installation works and performance works).
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- **Coursework.** Students must complete a total of **6.0 full-course equivalents (FCEs)** as follows:
 - 4.5 FCEs from the approved course list for curatorial studies
 - 1.5 FCEs in electives. 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 Director of the Visual Studies program (or designate), a studio faculty member of the MVS program who is considered the student's Principal Advisor, a second MVS studio faculty member, and another faculty member (not necessarily a member of the MVS program). The Final Studio Thesis defence requires an external reader chosen upon approval of the Principal Advisor and Program Director.
- The graduating **thesis project** is composed of an exhibition and a qualifying paper.
- **MVS Proseminar**, a non-credit course.
- An FZ (fail) in any one course or a B. grade in any two courses normally results in a recommendation to the School of Graduate Studies to terminate the student's registration in the degree program.

VIS 1020H	Contemporary Art: Theory and Criticism
VIS 1102H	MVS Curatorial Research
VIS 1004H	Internship
VIS 2000Y	MVS Proseminar
VIS 2002H	MVS Research and Writing
VIS 2101Y	MVS Curatorial Studies Exhibition Project
VIS 2102H	MVS Curatorial Studies Collaboration

MVS Elective Courses

VIS 1005H	Artist in Residence Master Class
VIS 3001H	Advanced Readings in Visual Studies
VIS 3002H	Advanced Readings in Curatorial Studies
VIS 3003H	Special Topics in Art and Culture

Program Length

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

Time Limit

3 years full-time

Architecture, Landscape, and Design: Visual Studies MVS Courses

MVS Studio Courses

VIS 1000Y	MVS Proseminar
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 2000Y	MVS Proseminar
VIS 2001H	Studio Practicum/Critiques III
VIS 2002H	MVS Research and Writing
VIS 2003Y	MVS Project

MVS Curatorial Studies Courses

VIS 1000Y	MVS Proseminar
VIS 1101H	Paradigmatic Exhibitions: History, Theory, Criticism
VIS 1010H	Contemporary Art Since 1960

Art History

Art History: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Art History

MA and PhD

- Fields:
 - Ancient;
 - Medieval;
 - Early Modern;
 - Modern and Contemporary

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - Art History, MA, PhD
- [Diaspora and Transnational Studies](#)
 - Art History, MA, PhD
- [Jewish Studies](#)
 - Art History, MA, PhD
- [Mediterranean Archaeology](#)
 - Art History, PhD
- [Sexual Diversity Studies](#)
 - Art History, MA, PhD

Overview

The Department of Art History's graduate programs emphasize the research, writing, and teaching necessary to pursue a career in academia or museum work. The programs benefit from affiliations at the University with the Centre for Medieval Studies and the Centre for Renaissance and Reformation Studies, as well as resources in Toronto including the Royal Ontario Museum, the Art Gallery of Ontario, the Aga Khan Museum, and the Gardiner Museum.

Contact and Address

Web: arthistory.utoronto.ca
 Email: graduate.arthistory@utoronto.ca
 Telephone: (416) 946-3960

Graduate Department of Art History
 University of Toronto
 Sidney Smith Hall
 Room 6037A, 100 St. George Street
 Toronto, Ontario M5S 3G3
 Canada

Art History: 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, Bjoern - AM, PhD
 Gu, Yi - BLitt, MMSt, PhD
 Harney, Elizabeth - AB, MA, PhD (**Director of Graduate Studies**)
 Jain, Kajri - PhD
 Kaplan, Louis - AB, AM, DPhil
 Kavalier, Ethan Matt - PhD
 Knappett, Carl - MA, PhD (**Chair and Graduate Chair**)
 Legge, Elizabeth MM - BA, BA, MA, PhD
 Levy, Evonne - MFA, PhD
 Mostafa, Heba - AM, PhD
 Periti, Giancarla - PhD
 Purtle, Jennifer - BA, MPH, MA, PhD
 Ricco, John - BA, MA, PhD
 Sohm, Philip - BA, MA, PhD
 Syme, Alison - PhD

Members Emeriti

Richardson, Douglas - BA, MA, PhD
 Shaw, Joseph - BA, MAT, PhD
 Shaw, Maria - PhD

Associate Members

Sapirstein, Philip - PhD, PhD, PhD

Art History: Art History MA

Master of Arts

Program Description

The MA program is a course-based and research-intensive degree designed to prepare art history students for doctoral research, curatorial work, art consultation, heritage programs, cultural journalism, and secondary school teaching.

The MA program can be taken 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 Graduate Department of Art History's additional admission requirements stated below.

- Strong overall grade average in art history 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

- **Coursework.** Students must complete **3.0 graduate full-course equivalents (FCEs)** as follows:
 - Coursework must be chosen from at least three of four fields: 1) Ancient, 2) Medieval, 3) Early Modern, 4) Modern and Contemporary. No more than 2.0 FCEs may be taken in any one of the four fields.
 - Coursework must also be taken in at least two geographic zones (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.
 - 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 History and the other department concerned.
- Reading knowledge of a language other than English (normally French, German, Italian, Arabic, or Chinese); tested in the first session.
- *Orientation to Art Historical Research Methods*, a workshop led by the Department of Art History's librarian, normally taken in Year 1.

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

Art History: Art History PhD

Doctor of Philosophy

Program Description

The PhD program is designed to prepare art history students for college and university teaching, museum curatorships, and other research positions.

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate master's degree or 2) direct entry after completing a bachelor's degree.

PhD 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 Art History's additional admission requirements stated below.
- Minimum A- average in their master's program.
- Reading knowledge of two foreign languages relevant to the student's research.
- 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.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** of graduate courses as follows:
 - FAH 5000Y *Comprehensive Examinations and Dissertation Topic Reading Course* (1.0 FCE; Credit/No Credit) with the student's interim supervisor to prepare for the comprehensive examinations.
 - FAH 1001H *Methods of Art History* (0.5 FCE), a departmental methodology course, must be taken in Year 1. With departmental approval, credit may be given for a research methodology course taken previously.
 - Students are encouraged to take courses reflecting a variety of time periods and geographic zones.
- *Orientation to Art Historical Research Methods*, a workshop for new students, is recommended.
- At the end of each academic year, 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 foreign languages** by the end of Year 2. Students who have completed a language exam during their MA may apply to have the exam counted towards fulfilling one of the two foreign language requirements. 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.
- Within Years 1 and 2, students complete coursework and language requirements and secure a **prospective supervisor** with whom they will discuss plans for the comprehensive examinations.
- Additionally, within Years 1 and 2, students must take a three-part **comprehensive examination**: 1) the first part focusing on one of the four fields, 2) the second on the student's dissertation field, and 3) the third (oral) discussing the first two.
 - The exam consists of an in-house written section, a take-home essay, and an oral exam.
 - 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), 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.
 - Once the student passes the exam, their graduate record will be updated to reflect successful exam completion.

- Immediately following successful completion of comprehensive examinations, students must formally establish their **PhD Supervisory 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 Supervisory Committee, the student will develop a detailed **proposal for their research**, to be submitted 3 months after the successful completion of their comprehensive exam. The length and specific nature of the proposal will be determined by the Supervisory Committee and the PhD student. The drafted proposal must be approved, first by the Supervisory Committee, and then by the Director of Graduate Studies.
- At some point during the dissertation stage, students will present their work to the faculty and students at a colloquium in an appropriate format and at a time to be determined by the supervisor in consultation with the Director of Graduate Studies.
- **Normal timeline through the program:** By the end of Year 1, students should have completed all course requirements for the degree. By the end of the following year of registration, students should satisfy any remaining requirements, select a thesis committee, pass the comprehensive examination, and submit a thesis proposal. Thereafter, the candidate selects a member of the thesis committee to be the thesis supervisor and begins work on their thesis.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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 History's additional admission requirements stated below.
- Applicants with a bachelor's degree who have an exceptionally strong academic record; minimum grade average of A- in art history and humanities courses in the last two years.
- Reading knowledge of two foreign languages relevant to the student's research.
- 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.

Program Requirements

- **Coursework.** Students must complete **at least 5.5 full-course equivalents** (FCEs) in art history as follows:
 - FAH 5000Y *Comprehensive Examinations and Dissertation Topic Reading Course* (1.0 FCE; Credit/No

Credit) must be taken in Year 2 with the student's interim supervisor to prepare for the comprehensive examinations.

- FAH 1001H *Methods of Art History* (0.5 FCE), a departmental methodology course, must be taken in Years 1 and 2. With departmental approval, credit may be given for a research methodology course taken previously.
- The remaining 4.0 FCEs must be chosen from at least three of the following fields: (1) Ancient, (2) Medieval, (3) Early Modern, 4) Modern and Contemporary. Any course that covers more than one of these time periods may only be used to fulfil one of the FCE distributions.
- Coursework must be taken in at least two geographic zones (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.
- Students must maintain an A- average.
- *Orientation to Art Historical Research Methods*, a workshop led by the Department of Art History's librarian, normally taken in Year 1.
- Students must pass **examinations in two foreign languages** by the end of Year 2. Students focusing on Ancient, Medieval, and Renaissance and 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 approval of the dissertation proposal.
- At the beginning of Year 3, 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.
- Within the first three years, students must take a **three-part comprehensive examination**: 1) the first part focusing on one of the four fields, 2) the second on the dissertation field, and 3) 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, 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) 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.
 - Once the student passes the exam, their graduate record will be updated to reflect successful exam completion.
- Immediately following successful completion of comprehensive examinations, students must formally establish their **PhD Supervisory 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 Supervisory Committee, the student will develop a detailed **proposal for their research**, to be submitted 3 months after the successful completion of their comprehensive exam. The length and specific nature of the proposal will be determined by the Supervisory Committee and the PhD student. The drafted proposal must be approved, first by the Supervisory Committee, and then by the department's Director of Graduate Studies.
- At some point during the dissertation stage, students will present their work to the faculty and students at a colloquium in an appropriate format and at a time to be determined by the supervisor in consultation with the Director of Graduate Studies.
- Normal timeline through the program:** By the end of Year 2, students should have completed all course requirements for the degree. By the end of the following year of registration, students should satisfy any remaining requirements, select a thesis committee, pass the comprehensive examination, and submit a thesis proposal. Thereafter, the candidate selects a member of the thesis committee to be the thesis supervisor and begins work on their thesis.

Program Length

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

Time Limit

7 years

Art History: Art History MA, PhD Courses

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
-----------	------------------------

Ancient

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 2028H	Art and the Philosophy of Time
FAH 2029H	The Art of Perception
FAH 2034H	Topics in Roman Imperial Art
FAH 2037H	Empathy, Embodiment, and Emotion in Ancient Art
FAH 2038H	Greek and Roman Sculpture in the Royal Ontario Museum

FAH 2060H	Artisans and Artists in the Ancient Mediterranean
-----------	---

Medieval

FAH 1114H	Multicultural Arts of Medieval Sicily
FAH 1118H	The Medieval Treasury
FAH 1119H	Global Medieval Art in China
FAH 1121H	12th-Century Renaissance?
FAH 1125H	Medieval Pilgrimage Art and Architecture
FAH 1127H	Early Medieval Art
FAH 1175H	Early Islamic Architecture: 7th-10th c.
FAH 1176H	History of Islamic Cairo (7th-16th c.)
FAH 1177H	Building the Islamic Empire: Architecture of the Umayyads

Early Modern

FAH 1202H	Correggio and the Problem of Italian Renaissance Art
FAH 1204H	The Cassinese Art of Reform in Renaissance Italy
FAH 1205H	Early Modern Intermediality
FAH 1206H	Artistic Localities in the Early Modern World
FAH 1207H	Formalism and Its Objects
FAH 1221H	Inside the Painter's Studio
FAH 1229H	Architecture of the Global Renaissance
FAH 1231H	Northern European Sculpture 1400. 1600
FAH 1245H	Pieter Bruegel and Netherlandish Sixteenth-Century Painting
FAH 1249H	Margaret of Austria and the Renaissance in the Netherlands
FAH 1299H	Heinrich Wölfflin's Principles of Art History (1915) @ 100: A Worldwide Reception History

Modern and Contemporary

FAH 1410H	Artwriting, Past and Present
FAH 1411H	Art and Analogy
FAH 1457H	Vernacular Photography
FAH 1458H	Viewing History: The Visual Experience of the Past, 1750–1900
FAH 1462H	Photography and Scientific Representation in the 19th Century
FAH 1463H	Realisms
FAH 1464H	The Recalcitrant Icon
FAH 1471H	The Aesthetics of Democracy
FAH 1475H	Picasso in View of Nanette
FAH 1476H	Surrealism and Art
FAH 1482H	The Time of Art History
FAH 1486H	Bloomsbury and Vorticism
FAH 1488H	The Nature of Landscape
FAH 1489H	Re: Vision (Comparative Histories of the Senses)
FAH 1495H	Art, Empire, Colonization
FAH 1500H	Augmented Reality Art
FAH 1755H	Architecture and the Project of Industrial Modernity
FAH 1756H	Acoustic Space

FAH 1757H	Animal Images
FAH 1800H	James Wilson Morrice
FAH 1801H	Portraiture in Canada: 1750. 1870
FAH 1920H	Primitivism to Globalism: Theories of Otherness in Modern and Contemporary Arts
FAH 1921H	GeoAesthetics
FAH 1922H	Contemporary Art and Ethnography: Renewed Exchanges
FAH 1934H	Cosmopolitan/Comparative Modernisms
FAH 1935H	Contemporary Art Practices and the Modernist Archive
FAH 1936H	The Retro-Modern and the Time of the Contemporary
FAH 1940H	Photography and Humour
FAH 1951H	Contemporary Chinese Art and its Discontents
FAH 1960H	Indigenous Art, Land, and Material Relations in the Great Lakes

Reading Courses

FAH 3000H	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 2500H	Early Islamic Art and Architecture

Astronomy and Astrophysics

Astronomy and Astrophysics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

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). These ties provide great flexibility to students with a broad array of interests, giving them the option to work with a supervisor from one of these sibling units, and further enhance the opportunities for 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 and ALMA. The department has 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
Email: grad.sec@astro.utoronto.ca
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

Astronomy and Astrophysics: Graduate Faculty

Full Members

Abraham, Roberto - BSc, DPhil, FRSC (**Chair and Graduate Chair**)
Artymowicz, Pawel - MS, PhD
Bond, J. Richard - BSc, MS, PhD, FRSC, FRS
Carlberg, Raymond - BSc, MS, PhD
Crites, Abigail - PhD
Drout, Maria - PhD
Gaensler, Bryan - PhD, CRC
Jayawardhana, Ray - BS, PhD
Lester, John - BA, MS, PhD
Lowman, Julian - BSc, MS, DPhil
Martin, Peter - BSc, MSc, PhD, FRSC, OC
Matzner, Christopher - BA, MA, PhD
Menou, Kristen - BSc, MS, ScD
Moon, Dae-Sik - BS, MS, PhD
Murray, Norman - BSc, PhD, CRC
Netterfield, C. Barth - BSc, PhD
Pen, Ue-Li - BSc, PhD
Pfeiffer, Harald - MSc, PhD, CRC
Rein, Hanno - MS, DPhil
Sivanandam, Suresh - PhD
Thompson, Christopher - BSc, PhD
van Kerkwijk, Marten - MA, PhD
Vanderlinde, Keith - PhD
Wu, Yanqin - PhD
Yee, Howard - BASc, PhD, FRSC

Members Emeriti

Percy, John - BSc, MA, PhD

Associate Members

Dubinski, John - BSc, MSc, PhD
Friesen, Rachel Katherine - PhD
Neilson, Hilding - PhD
Reid, Michael - BSc, MSc, PhD
Webb, Jeremy - PhD

Astronomy and Astrophysics: Astronomy and Astrophysics MSc

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 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. See [General Regulations section 4.3](#) for requirements.
- Because many universities do not offer extensive undergraduate training in astronomy and astrophysics, preparation in physics and mathematics is an acceptable background.

Program Requirements

- Completion of **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 Year 1, and AST 1500Y is completed in the following Summer session.
- Minimum of **1.0 FCE (two half courses)** from the AST preparatory, elective, or specialized courses.
- 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

Astronomy and Astrophysics: Astronomy and Astrophysics PhD

Doctor of Philosophy

Program Description

The Department of Astronomy and Astrophysics offers dynamic and competitive doctoral programs which emphasize research.

Students may be accepted into the PhD program via one of two routes: 1) following completion of an appropriate master's

degree or 2) direct entry following completion of a bachelor's degree.

PhD Program

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 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. See [General Regulations section 4.3](#) for requirements.
- Applicants may be accepted into the PhD program following completion of 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, with an average of at least B+ or demonstrated comparable research competence.
- Because many universities do not offer extensive undergraduate training in astronomy and astrophysics, preparation in physics and mathematics is an acceptable background.

Program Requirements

- There is no minimum course requirement in the four-year program except for **courses** deemed necessary by the student's PhD supervisory committee.
- Students register in the **AST 4000Y Research course series** (in sequence of the last digit: 2, 3, etc.) beginning in the Summer session of Year 1 and continue through the sequence through Year 4. The first registration, AST 4002Y, corresponds to the qualifying examinations. The series continues with registration each Fall/Winter, starting with AST4003Y and is incremented by one digit each subsequent academic year. This registration is tied to thesis research progress, which is assessed based on the two required annual PhD supervisory committee meetings in October and April.
- 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 by the student to the examiners. Both qualifying examinations are taken in the Summer session of Year 1.
- 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.
- **Residence.** Students are normally expected to be on campus full-time for the duration of the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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 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. See [General Regulations section 4.3](#) for requirements.
- Students are accepted into the PhD program following completion of 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.

Program Requirements

- Completion of **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. AST 1501Y is normally completed during the Fall/Winter of Year 1, and AST 1500Y is completed in the following Summer session. An oral exam by committee is held for each.
- A minimum of **four half courses (2.0 FCEs)** from the AST preparatory, elective, or specialized courses.
- Students register in the **AST 4000Y Research course series** (in sequence of the last digit: 2, 3, etc.) beginning in the Summer session of Year 2 and continue the sequence through Year 5. The first registration, AST 4002Y, corresponds to the qualifying examinations. The series continues with registration each Fall/Winter, starting with AST 4003Y and is incremented by one digit each subsequent academic year. This registration is tied to thesis research progress, which is assessed based on the two required annual PhD supervisory committee meetings in October and April.
- 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 by the student to the

examiners. Both qualifying examinations are taken in the Summer session of Year 2.

- 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.
- Residence.** Students are normally expected to be on campus full-time for the duration of the program.

Program Length

5 years

Time Limit

7 years

Astronomy and Astrophysics: Astronomy and Astrophysics MSc, PhD Courses

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 4000Y ⁺	Research (students register in this 4000Y series each year, beginning in Year 2, in sequence of the last digit: 2, 3, etc.)
AST 4002Y ⁺	Research
AST 4003Y ⁺	Research
AST 4004Y ⁺	Research
AST 4005Y ⁺	Research
AST 4006Y ⁺	Research
AST 4007Y ⁺	Research

⁺ *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
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 3050Y	Theoretical Cosmology
AST 3100H	Lecture Series in Specialized Topics (mini courses)

Biochemistry

Biochemistry: Introduction

Faculty Affiliation

Medicine

Degree Programs

Biochemistry

MSc and PhD

Combined Degree Programs

STG, MD / PhD

Collaborative Specializations

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

- Biomedical Engineering
 - Biochemistry, MSc, PhD
- Developmental Biology
 - Biochemistry, MSc, PhD
- Genome Biology and Bioinformatics
 - Biochemistry, PhD
- 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 of Biochemistry offers modern facilities for research 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: Graduate Faculty

Full Members

Adeli, Khosrow - DipChem, MSc, PhD
Attisano, Liliana - BSc, PhD
Baker, Robert - BSc, PhD
Bazett-Jones, David - BSc, MSc, PhD
Bear, Christine - BSc, MSc, PhD
Brown, Grant - BSc, PhD
Callahan, John - BSc, MSc
Chakrabarty, Avijit - BSc, MSc, PhD
Chan, Hue Sun - BSc, MA, PhD
Davidson, Alan Richard - BSc, PhD
Deber, Charles - BSc, PhD
Enenkel, Cordula - PhD
Ensminger, Alexander - BS, PhD
Ernst, Oliver - PhD
Fair, Gregory - BSc, PhD
Forman-Kay, Julie - BSc, PhD
Glover, John - BSc, MSc, PhD
Grinstein, Sergio - BSc, PhD
Houry, Walid - BS, MS, PhD
Howell, Lynne - BSc, PhD
Ingles, C. James - BSc, PhD
Isenman, David - BSc, BSc, PhD
Jorgensen, Annelise - MSc, PhD
Kahr, Walter - MD
Kapus, Andras - MD, PhD
Kay, Lewis - PhD
Keeley, Frederick - BSc, PhD
Kelley, Shana - BA, PhD
Kim, Peter - PhD
Klip, Amira - ScD
Lee, Hyun - PhD
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
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 (**Graduate Coordinator**)
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
Schulze, Andreas - MD
Schoormans, Carol - PhD
Segall, Jacqueline - BSc, PhD
Sharpe, Simon J. - BSc, PhD

Siu, Chi-Hung - BA, PhD
 Smibert, Craig - BSc, PhD
 Stagljär, Igor - BS, PhD
 Steipe, Boris - MD, PhD
 Trimble, William - BSc, PhD
 Williams, David - BSc, MSc, PhD
 Wyatt, Haley - PhD
 Yip, Christopher - 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

Andreopoulos, Stavroula - BSc, MSc, PhD
 Julien, Jean-Philippe - PhD
 Lee, Nana Hyung-Ran - PhD
 Maxwell, Karen - PhD
 Patterson, Sian - PhD
 Watts, Joel - PhD

Biochemistry: Biochemistry MSc

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 IELTS (International English Language Testing System) score of at least 7 is also acceptable.

Program Requirements

- Complete any courses that were a condition of acceptance.
- Complete 0.5 full-course equivalent (FCE) from the following list:
 - BCH 2024H⁰ *Focused Topics in Biochemistry*,
 - JBB 2025H *Protein Crystallography*, or
 - JBB 2026H *Protein Structure, Folding, and Design*.
- 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

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

** Students may begin the program in the Fall or Winter.

Biochemistry: Biochemistry PhD

Doctor of Philosophy

Students are accepted into the PhD program via one of three routes: 1) following completion of an MSc degree in biochemistry or a cognate discipline; 2) transfer (reclassification) from the University of Toronto MSc program; or 3) following completion of a BSc degree (direct entry) if, in the opinion of the Biochemistry Graduate Committee, the student has an outstanding academic record.

PhD Program

Minimum Admission Requirements

- Applicants to the four-year and transfer options 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 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, an IELTS (International English Language Testing System) score of at least 7 is also acceptable.

Program Requirements

- Students who have completed an MSc degree must successfully complete of a **qualifying examination** within the first 18 months of the program.
- Complete any **courses** that were a condition of acceptance.
- Complete **1.5 full-course equivalents (FCEs)** from Biochemistry or cognate departments in graduate-level courses; at least 0.5 FCE must be from the following list:
 - BCH 2024H⁰ *Focused Topics in Biochemistry*;
 - JBB 2025H *Protein Crystallography*; or
 - JBB 2026H *Protein Structure, Folding, and Design*.
 - Students may fulfil the 1.5-FCE course requirement entirely from this list.
- Participate in **BCH 2022Y⁰ Doctoral Seminar Course in Biochemistry** (Credit/No Credit).
- 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 transfer-from-master's

Time Limit

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

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Direct-Entry)

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 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, an IELTS (International English Language Testing System) score of at least 7 is also acceptable.
- The latter two categories require the student to successfully complete a qualifying examination within the first 18 months.

Program Requirements

- Students must successfully complete a **qualifying examination** within the first 18 months of the program.
- Complete any **courses** that were a condition of acceptance.
- Complete **1.5 full-course equivalents (FCEs)** from Biochemistry or cognate departments in graduate-level courses at least 0.5 FCE must be from the following list:
 - BCH 2024H⁰ *Focused Topics in Biochemistry*;
 - JBB 2025H *Protein Crystallography*; or
 - JBB 2026H *Protein Structure, Folding, and Design*.
 - Students may fulfil the 1.5-FCE course requirement entirely from this list.
- Participate in **BCH 2022Y⁰ Doctoral Seminar Course in Biochemistry** (Credit/No Credit).
- 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

5 years

Time Limit

7 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

Biochemistry: Biochemistry MSc, PhD Courses

For course details and availability, consult the [Biochemistry website](#).

BCH 2020Y ⁰	Master's Seminar Course in Biochemistry (Credit/No Credit)
BCH 2022Y ⁰	Doctoral Seminar Course in Biochemistry (Credit/No Credit)

BCH 2024H ⁰	Focused Topics in Biochemistry
JBB 2025H	Protein Crystallography . Lectures
JBB 2026H	Protein Structure, Folding, and Design
JBL 1507H	Biochemistry of Inherited Disease
JNP 1017H ⁺	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H ⁺	Molecular and Biochemical Basis of Toxicology
JNR 1444Y	Fundamentals of Neuroscience: Cellular and Molecular — Lectures (PSL 444Y) [§]

⁰ Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

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

[§] Arts and Science undergraduate course.

Biomedical Engineering

Biomedical Engineering: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Biomedical Engineering

MASc

- Fields:
 - Biomaterials, Tissue Engineering and Regenerative Medicine;
 - Engineering in a Clinical Setting;
 - Nanotechnology, Molecular Imaging and Systems Biology;
 - Neural/Sensory Systems and Rehabilitation

MEng

- Fields:
 - Biomaterials, Tissue Engineering and Regenerative Medicine;
 - Engineering in a Clinical Setting;
 - Nanotechnology, Molecular Imaging and Systems Biology;
 - Neural/Sensory Systems and Rehabilitation
- Emphases:
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology (ELITE);
 - Forensic Engineering

PhD

- Fields:
 - Biomaterials, Tissue Engineering and Regenerative Medicine;
 - Clinical Engineering;
 - Engineering in a Clinical Setting;
 - Nanotechnology, Molecular Imaging and Systems Biology;
 - Neural/Sensory Systems and Rehabilitation

Clinical Engineering

MHSc

Collaborative Specializations

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

- [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](#) (admissions have closed)
 - Biomedical Engineering, PhD
- [Human Development](#) (admissions have been suspended)
 - Biomedical Engineering, PhD
- [Musculoskeletal Sciences](#)
 - Biomedical Engineering, MASc, PhD
- [Neuroscience](#)
 - Biomedical Engineering, MASc, PhD
 - Clinical Engineering, MHSc
- [Resuscitation Sciences](#)
 - Biomedical Engineering, PhD
 - Clinical Engineering, MHSc

Overview

The Institute of Biomedical Engineering (BME) offers facilities for research in biomedical engineering and for three educational programs leading to master's and doctoral degrees.

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 inst..... work is interdisciplinary.

Contact and Address

Institute of Biomedical Engineering Academic Programs Office

Web: ibbme.utoronto.ca
 Institute of Biomedical Engineering
 University of Toronto
 Room 407, Rosebrugh Building
 164 College Street
 Toronto, Ontario M5S 3G9
 Canada

MASc, MHSc, and PhD Programs

Email: grad.ibbme@utoronto.ca
 Telephone: (416) 978-4841
 Fax: (416) 978-4317

MEng Program

Email: meng.ibbme@utoronto.ca
 Telephone: (416) 978-6102
 Fax: (416) 978-4317

Biomedical Engineering: Graduate Faculty

Full Members

Amon, Cristina - BAsC, MSc, ScD
 Andrysek, Jan - BSc, MAsC, PhD
 Audet, Julie - MAsC, PhD (**Vice-Dean, Graduate Studies**)
 Bardakjian, Berj - BSc, BEd, MAsC, PhD
 Biddiss, Elaine Alisa - MAsC, PhD
 Borschel, Gregory - BSc, DrMed
 Cafazzo, Joseph - DPhil
 Carlen, Peter - MD
 Chan, Warren - BSc, PhD (**Director**)
 Chau, Tom - PhD
 Cheng, Hai-Ling - BSc, MS, PhD
 Cheyne, Douglas - BSc, MA, PhD
 Chou, Leo - PhD
 Davies, John - BSc, BDSc, PhD, DSc (**Associate Director, Graduate Program**)
 Drake, James McKenzie - BSE, MSc, MBChB
 Fernandez-Gonzalez, Rodrigo - BSc, PhD
 Fernie, Geoffrey - BSc, PhD
 Finer, Yoav - MSc, MSc, DMD, PhD
 Garton, Michael James - PhD
 Gilbert, Penney - PhD
 Grynpas, Marc - MSc, PhD
 Gu, Frank - BSc, PhD
 Guenther, Axel - DiplIng, DE
 Harrison, Robert - PhD, DSc
 Hatton, Benjamin - BAsC, MAsC, PhD
 Hinz, Boris - PhD
 Jaffray, David - BSc, PhD
 Kandel, Rita - MD
 Keating, Armand - BSc, MD
 Kelley, Shana - BA, PhD
 Keshavjee, Shaf - BA, MSc, LMCC, MD
 Kushki, Azadeh - DrEng
 Laflamme, Michael - BS, MD, PhD
 Levi, Ofer - BSc, MSc, PhD
 Li, Ren-Ke - MHSc, MSc, MD, PhD
 Liu, Xinyu - PhD
 Mahadevan, Radhakrishnan - BTech, PhD
 Mallevaey, Thierry - MSc, PhD
 Masani, Kei - EdD
 Matsuura, Naomi - ME, PhD
 McGuigan, Alison - MEng, PhD
 Mihailidis, Alex - BAsC, MAsC, PhD
 Moffat, Jason - BSc, PhD
 Morshead, Cindi - BS, PhD
 Naguib, Hani - BSc, ME, PhD, PEng
 Popovic, Milos - DiplIng, PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Radisic, Milica - BEng, PhD
 Rocheleau, Jonathan - BSc, PhD
 Santerre, Paul - BSc, MSc, PhD
 Schweizer, Tom - BA, MSc, DPhil
 Sefton, Michael - BAsC, ScD
 Shoichet, Molly - PhD
 Sidhu, Sachdev - BSc, DPhil
 Simmons, Craig - BSc, MSc, PhD
 Sone, Eli - BSc, MS, PhD
 Sun, Yu - BS, MS, MS, PhD
 Taati, Babak - PhD
 Trbovich, Patricia L - BA, MA, PhD, PhD
 Truong, Kevin - BAsC, PhD
 Wheeler, Aaron - BS, PhD
 Whyne, Cari - BSc, PhD

Wong, Willy - BSc, MSc, PhD
 Yadollahi, Azadeh - DrEng
 Yasufuku, Kazuhiro - DrMed, PhD
 Yee, Albert - MSc, LMCC, MD
 Yip, Christopher - BSc, PhD (**Graduate Chair**)
 Yoo, Paul - BAsC, MSc, PhD
 You, Lidan - BS, MS, PhD
 Young, Edmond - BAsC, MAsC, PhD
 Zandstra, Peter - BEng, PhD
 Zariffa, Jose - DrEng
 Zheng, Gang - MSc, PhD
 Zilman, Anton - BSc, MSc, PhD

Members Emeriti

Cobbold, Richard - PhD
 Dolan, Alf - BSc, MSc
 Frecker, Richard - BSc, MD, PhD
 Kunov, Hans - MSc, PhD
 Norwich, Kenneth - MSc, PhD
 Pilliar, Robert - BAsC, PhD

Associate Members

Aviv, Richard - MBChB
 Bouwmeester, Chris - PhD
 Dutta, Tilak - MEng
 Ganss, Bernhard - BSc, MSc, DrRerNat
 Goyal, Sidhartha - MS, PhD
 Guerguerian, Anne Marie - MD
 Haider, Masoom - BM, MD
 Ibrahim, George - BS, MD, PhD
 Khan, Shehroz Saeed - PhD
 Kilkenny Rocheleau, Dawn - PhD
 Kumbhare, Dinesh - BSc, MHSc, MD
 Lankarany, Milad - PhD
 Roshan Fekr, Atena - PhD
 Steinman, David - BAsC, MAsC, PhD
 Triverio, Piero - BScEE, MS, PhD
 Vasconcelos, Sara - PhD
 Viswanathan, Sowmya - DPhil

Biomedical Engineering: Biomedical Engineering MAsC

Master of Applied Science

Program Description

The MAsC program is a research-stream, thesis-based program which provides a strong academic foundation for students who want to become immersed in the discipline of biomedical engineering. This program is designed to offer students challenging and rewarding research opportunities within the context of using engineering principles to enhance the quality of our health-care system.

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

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute'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 mid-B or 3.0 grade point average (GPA) in the final two years of study or over senior-level courses.

Program Requirements

- **Coursework.** The program normally comprises **at least 2.0 full-course equivalents (FCEs)** including:
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE)
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE)
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE)
 - Two half-course electives relevant to the student's area of research (1.0 FCE).
- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar series* (0.0 FCE).
 - JDE 1000H *Ethics in Research* (0.0 FCE).
 - Health and safety training workshops.
- Successful completion of a **research thesis** in at least one of the biomedical engineering research fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; and 4) Neural/Sensory Systems and Rehabilitation.

Program Length

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

Time Limit

3 years full-time

Biomedical Engineering: Biomedical Engineering MEng

Master of Engineering

Program Description

The MEng program is an accelerated, professional program with a focus on the design and commercialization of biomedical devices. Students will have the opportunity to take on applied design challenges and meet the growing demands of this industry through a four-month practical experience through internships, research projects, or practical course activities. The MEng program is offered in the fields of 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular

Imaging and Systems Biology; and 4) Neural/Sensory Systems and Rehabilitation. Students can take the program 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 IBBME's additional admission requirements stated below.
- A four-year bachelor's degree in engineering, medicine, dentistry, or one of the physical or biological sciences from a recognized university, with at least a mid-B average (3.0 grade point average [GPA]) in the final two years of study or over senior-level courses.

Program Requirements

- **Coursework.** The program comprises at least **5.0 full-course equivalents (FCEs)** as follows:
 - At least 2.0 FCEs in biomedical engineering courses; these include all BME and joint BME course offerings.
 - At least 1.0 FCE in commercialization and entrepreneurship courses such as BME 1800H, BME 1801H, BME 1802H, and BME 1405H.
 - A 1.5 FCE Practical Experience in Applied Research course in biomedical device development, usually over one session for the full-time option (BME 1899Y), or over three sessions for the part-time option (BME 1898Y). The internship must be in at least one of the following biomedical engineering research fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; or 4) Neural/Sensory Systems and Rehabilitation. The practical experience course can be taken in academic research laboratories, government institutions, health-care facilities, in the industry, or in health-care consulting firms.
 - The remaining 0.5 FCE can be a half course in either biomedical engineering, commercialization and entrepreneurship, or any graduate-level course the student is interested in.
- All courses must be at the graduate level, which includes both 500- and 1000-level. Students can take a maximum of one 500-level course.
- Health and safety training workshops.
- Students have the option of completing an emphasis in Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); or Forensic Engineering as part of their degree program. Please see details in the Biomedical Engineering MEng Emphases section.

Program Length

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

Time Limit

2 years full-time;
6 years part-time

Biomedical Engineering: Biomedical Engineering PhD;
Fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; 4) Neural/Sensory Systems and Rehabilitation

Doctor of Philosophy

Program Description

The PhD program offers courses and a strong research thesis component. Students emerge from this program ready to pursue careers in academia, medicine, industry, and government. Students with a particular interest in conducting biomedical engineering research with a primary clinical focus may pursue a field in clinical engineering within the Biomedical Engineering PhD program.

Applicants may enter the PhD program via one of three routes: 1) following completion of an appropriate master's degree; 2) transfer from the University of Toronto MAsc or MHSc program; or 3) direct entry following completion of an appropriate bachelor's degree.

Fields:

1) Biomaterials, Tissue Engineering and Regenerative Medicine;
2) Engineering in a Clinical Setting;
3) Nanotechnology, Molecular Imaging and Systems Biology;
4) Neural/Sensory Systems and Rehabilitation

PhD Program

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute's additional admission requirements stated below.
- Applicants must have a master's degree in dentistry, engineering, medicine, or one of the physical or biological sciences with an overall average of at least B+ (3.3 grade point average [GPA]) from a recognized university.

Program Requirements

- **Coursework.** Normally, students must complete **at least 1.0 full-course equivalent (FCE)** including:
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE).
- Students are also expected to pursue a **thesis topic** relevant to at least one of the following Biomedical Engineering research fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; and 4) Neural/Sensory Systems and Rehabilitation.
- Within 12 months of registration, students must pass a **qualifying examination** covering the broad field of biomedical engineering appropriate to their background.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.
- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- 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. MAsc and MHSc students who transfer to a PhD must fulfil the admission requirements listed under the specific field of the PhD program they are transferring to.

Program Requirements for MAsc Transfer Students

- **Coursework.** Students who transfer from the MAsc program in Biomedical Engineering must complete the total course requirements for both degrees: 2.0 full-course

equivalents (FCEs) at the master's level plus 1.0 FCE at the PhD level, for a **total of 3.0 FCEs**.

- Students must complete two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE).
- Elective courses relevant to the student's area of research (2.0 FCEs).

Program Requirements for MHSc Transfer Students

- **Coursework.** Students who transfer from the MHSc program in Biomedical Engineering must complete the total course requirements for both degrees: 4.0 FCEs at the master's level plus 1.0 FCE at the PhD level, for a **total of 5.0 FCEs**.
 - BME 1405H *Clinical Engineering Instrumentation I* (0.5 FCE) and BME 1436H *Clinical Engineering Surgery* (0.5 FCE).
 - Students must complete two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE);
 - Two half-course electives relevant to the student's area of research (1.0 FCE).
 - BME 4444Y *Practical Experience Course* (1.0 FCE) in health-care facilities, the medical device industry, or health-care consulting firms. The practical experience course must total a minimum of 625 hours.

All PhD Students

- Students are expected to pursue a **thesis topic** relevant to at least one of the following Biomedical Engineering research fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; and 4) Neural/Sensory Systems and Rehabilitation.
- Within 12 months of registration, students must pass a **qualifying examination** covering the broad field of biomedical engineering appropriate to their background.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.
- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute's additional admission requirements stated below.
- Direct entry with a bachelor's degree may be considered in exceptional cases. Applicants must have an undergraduate degree in dentistry, engineering, medicine, or one of the physical or biological sciences.

Program Requirements

- **Coursework.** Normally, students must complete **3.0 full-course equivalents (FCEs)** including:
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE).
 - Elective courses relevant to the student's area of research (2.0 FCEs).
- Students are also expected to pursue a **thesis topic** relevant to at least one of the following Biomedical Engineering research fields: 1) Biomaterials, Tissue Engineering and Regenerative Medicine; 2) Engineering in a Clinical Setting; 3) Nanotechnology, Molecular Imaging and Systems Biology; and 4) Neural/Sensory Systems and Rehabilitation.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.
- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

5 years

Time Limit

7 years

Biomedical Engineering: Biomedical Engineering PhD; Field: Clinical Engineering

Doctor of Philosophy

Program Description

The PhD program offers courses and a strong research thesis component. Students emerge from this program ready to pursue careers in academia, medicine, industry, and government. Students with a particular interest in conducting biomedical engineering research with a primary clinical focus may pursue a field in clinical engineering within the Biomedical Engineering PhD program.

Applicants may enter the PhD program via one of three routes: 1) following completion of an appropriate master's degree; 2) transfer from the University of Toronto MASc or MHSc program; or 3) direct entry following completion of an appropriate bachelor's degree.

Field: Clinical Engineering

PhD Program

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute's additional admission requirements stated below.
- Applicants must have a master's degree in dentistry, engineering, medicine, or one of the physical or biological sciences with an overall average of at least B+ (3.3 grade point average [GPA]) from a recognized university.

Program Requirements

- **Coursework.** Normally, students must complete **at least 1.0 full-course equivalent (FCE)** including:
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE)
 - If a student does not have a formal degree in clinical engineering, 0.5 FCE from one of the BME clinical

engineering courses (BME 1405H, BME 1436H, BME 1439H, or BME 4444Y) is required. A student who possesses protracted professional engineering experience (five or more years) will be exempt from this requirement.

- Students 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 BME-appointed; however, the co-supervisor could be from a clinical unit other than BME but must be appointed to SGS.
- Within 12 months of registration, students must pass a **qualifying examination** covering the broad field of biomedical engineering appropriate to their background.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.
- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- 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 research fields. To be eligible to transfer to the PhD, Clinical Engineering MHSc students must complete 3.0 full-course equivalents (FCEs) within the MHSc curriculum.
- MHSc students who transfer to the PhD in the field of Clinical Engineering must fulfil the PhD program requirements listed below. MHSc students who transfer to the other PhD fields must fulfil the program requirements of the PhD field as described in the applicable section.

Program Requirements for MASc Transfer Students

- **Coursework.** Students who transfer from the MASc program in Biomedical Engineering must complete the total course requirements for both degrees: 2.0 full-course equivalents (FCEs) at the master's level plus 1.0 FCE at the PhD level, for **a total of 3.0 FCEs**.
 - Students must complete two of the following (1.0 FCE):

- BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
- BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
- BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE).
- Elective courses relevant to the student's area of research (2.0 FCEs).
- If a student does not have a formal degree in clinical engineering, 0.5 FCE from one of the BME clinical engineering courses (BME 1405H, BME 1436H, BME 1439H, or BME 4444Y) is required. A student who possesses protracted professional engineering experience (five or more years) will be exempt from this requirement.

Program Requirements for MHSc Transfer Students

- **Coursework.** Students who transfer from the MHSc program in Biomedical Engineering must complete the total course requirements for both degrees: 4.0 FCEs at the master's level plus 1.0 FCE at the PhD level, for a **total of 5.0 FCEs**.
 - BME 1405H *Clinical Engineering Instrumentation I* (0.5 FCE) and BME 1436H *Clinical Engineering Surgery* (0.5 FCE).
 - Students must complete two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE);
 - Two half-course electives relevant to the student's area of research (1.0 FCE).
 - BME 4444Y *Practical Experience Course* (1.0 FCE) in health-care facilities, the medical device industry, or health-care consulting firms. The practical experience course must total a minimum of 625 hours.
 - If a student does not have a formal degree in clinical engineering, 0.5 FCE from one of the BME clinical engineering courses (BME 1405H, BME 1436H, BME 1439H, or BME 4444Y) is required. A student who possesses protracted professional engineering experience (five or more years) will be exempt from this requirement.

All PhD Students

- Students 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 BME-appointed; however, the co-supervisor could be from a clinical unit other than BME but must be appointed to SGS.
- Within 12 months of registration, students must pass a **qualifying examination** covering the broad field of biomedical engineering appropriate to their background.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.

- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute's additional admission requirements stated below.
- Direct entry with a bachelor's degree may be considered in exceptional cases. Applicants must have an undergraduate degree in dentistry, engineering, medicine, or one of the physical or biological sciences.

Program Requirements

- **Coursework.** Normally, students must complete **3.0 full-course equivalents (FCEs)** including:
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE).
 - Elective courses relevant to the student's area of research (2.0 FCEs).
 - If a student does not have a formal degree in clinical engineering, 0.5 FCE from one of the BME clinical engineering courses (BME 1405H, BME 1436H, BME 1439H, or BME 4444Y) 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 BME-appointed; however, the co-supervisor could be from a clinical unit other than BME but must be appointed to SGS.
- Within 12 months of registration, students must pass a **qualifying examination** covering the broad field of biomedical engineering appropriate to their background.
- Successful completion of a **thesis**, representing an original investigation in biomedical engineering.
- 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**.

- Students must participate in:
 - Either BME 1010H or BME 1011H *Graduate Seminar* series (0.0 FCE);
 - JDE 1000H *Ethics in Research* (0.0 FCE);
 - Health and safety training workshops.

Program Length

5 years

Time Limit

7 years

Biomedical Engineering: Clinical Engineering MHSc

Master of Health Science

Program Description

The MHSc program educates students on how to apply and implement medical technologies to optimize modern health-care delivery. This professional degree program consists of academic courses and a research thesis and provides students with real-world exposure through a practical experience course with a private sector company, a hospital, or a research facility.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the institute's additional admission requirements stated below.
- Selected students with a four-year bachelor's degree in engineering, medicine, dentistry, or one of the physical or biological sciences from a recognized university, with a mid-B (3.0 grade point average [GPA]) or higher in the final two years of study or over senior-level courses.

Program Requirements

- **Coursework.** Students must normally complete **4.0 full-course equivalents (FCEs)** as follows:
 - BME 1405H *Clinical Engineering Instrumentation I* (0.5 FCE) and BME 1436H *Clinical Engineering Surgery* (0.5 FCE)
 - Two of the following (1.0 FCE):
 - BME 1477H *Biomedical Engineering Project Design and Execution* (0.5 FCE);
 - BME 1478H *Coding for Biomedical Engineers* (0.5 FCE); or
 - BME 1479H *Statistical Discovery Techniques for Biomedical Researchers* (0.5 FCE)

- Two half-course electives relevant to the student's area of research (1.0 FCE).
- BME 4444Y *Practical Experience Course* (1.0 FCE) in health-care facilities, the medical device industry, or health-care consulting firms. The practical experience course must total a minimum of 625 hours.

- Students must participate in:
 - Either BME 1010H **or** BME 1011H *Graduate Seminar* series (0.0 FCE) **and**
 - JDE 1000H *Ethics in Research* (0.0 FCE).
- 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

Biomedical Engineering: Biomedical Engineering MEng Emphases

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Forensic Engineering (MEng only)

MEng students must successfully complete **four courses (one core course and three elective courses)**.

Core Course

MSE 1031H

Elective Courses

APS 540H, APS 1034H, APS 1039H, APS 1040H, BME 1800H, BME 1801H, BME 1480H, CHE 561H, CHE 568H, CHE 1213H, CHE 1431H, CHE 1432H, CHE 1434H, CIV 510H, CIV 518H, CIV 1163H, CIV 1171H, CIV 1174H, CIV 1190H, CIV 1201H, CIV 1279H, CIV 1282H, CIV 1422H, CIV 1429H, JMB 1050H, JNC 2503H, MSE 1015H, MSE 1022H, MSE 1032H, MIE 566H, MIE 1224H, MIE 1301H, MIE 1303H, MIE 1411H, MIE 1414H, MIE 1616H, MIE 1713H, MIE 1714H, MIE 1721H, MIE 1723H, MIE 1727H, MIE 1804H.

Biomedical Engineering: Biomedical Engineering MASc, MEng, PhD, Clinical Engineering MHSc Courses

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 1453H	Cellular Systems Engineering
BME 1454H	Regenerative Medicine: Fundamentals and Applications
BME 1456H	Changing Health Care Technologies, People, and Places
BME 1457H	Biomedical Nanotechnology
BME 1459H	Protein Engineering
BME 1460H	Quantitative Fluorescence Microscopy: Theory and Application to Live Cell Imaging
BME 1462H	Biological Image Analysis
BME 1466H	Advanced Topics on Magnetic Resonance Imaging
BME 1471H	Rehabilitation Engineering
BME 1472H	Fundamentals of Neuromodulation Technology and Clinical Applications
BME 1473H	Acquisition and Processing of Bioelectric Signals
BME 1477H	Biomedical Engineering Project Design and Execution
BME 1478H	Coding for Biomedical Engineers
BME 1479H	Statistical Discovery Techniques for Biomedical Researchers
BME 1480H	Experimental Design and Multivariate Analysis in Bioengineering
BME 1800H	Biomedical Product Development I
BME 1801H	Biomedical Product Development II
BME 1802H	Biomedical Devices . Human Factors
BME 1898Y	Practical Experience in Applied Research PT
BME 1899Y	Practical Experience in Applied Research FT
BME 4444Y	Practical Experience Course
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
JEB 1444H	Neural Engineering
JEB 1447H	Sensory Communications
JEB 1451H	Neural Bioelectricity
JMB 1050H	Biological and Bio-inspired Materials
BME/JPB 1022H	Human Physiology as Related to Engineering II
JPB 1071H	Advanced Topics: Computational Neuroscience
JTC 1331H	Biomaterials Science
MBP 1007H	Fundamentals in Molecular and Cell Biology
MBP 1022H	Advanced Cell Biology for Physical Scientists

Cell and Systems Biology

Cell and Systems Biology: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Cell and Systems Biology

MSc and PhD

Collaborative Specializations

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

- [Developmental Biology](#)
 - Cell and Systems Biology, MSc, PhD
- [Genome Biology and Bioinformatics](#)
 - Cell and Systems Biology, PhD
- [Neuroscience](#)
 - Cell and Systems Biology, MSc, PhD

Overview

Students undertaking graduate programs in the Department of Cell and Systems Biology 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: csb.utoronto.ca
 Email: grad.csb@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

Cell and Systems Biology: Graduate Faculty

Full Members

AbouHaidar, Mounir - DipdESup, BSc, PhD, CAP
 Arruda Carvalho, Maithe - BSc, MSc, PhD
 Berleth, Thomas - BSc, MSc, PhD
 Bonin, Robert - PhD
 Boonstra, Rudy - BSc, PhD
 Braeutigam, Katharina - MA, MA, PhD
 Brown, Ian - BSc, PhD
 Bruce, Ashley - BA, PhD
 Buck, Leslie - BSc, PhD
 Calarco, John Anthony - PhD, CRC
 Campbell, Malcolm - DPhil
 Chang, Belinda - AB, PhD, CRC
 Cheng, Mary - MSc, PhD
 Christendat, Dinesh - PhD
 Corbit, Laura - PhD
 Currie, Mark Allister - BSc, PhD
 Desveaux, Darrell - BSc, MSc, PhD
 Edwards, Elizabeth - BEng, PhD
 Ensminger, Ingo - PhD
 Erb, Suzanne - BSc, MA, PhD
 Erclik, Teddy - BSc, PhD
 Espie, George - PhD
 Fernandez-Gonzalez, Rodrigo - BSc, PhD
 Fulthorpe, Roberta - BSc, MSc, PhD
 Gazzarrini, Sonia - BA, PhD
 Gerlai, Robert - MSc, PhD
 Gilbert, Penney - PhD
 Godt, Dorothea - MS, DrRerNat
 Gonzales-Vigil, Eliana - BS, PhD
 Goring, Daphne - PhD
 Guttman, David - BS, PhD
 Guzzo, Christina - BSc, PhD
 Harris, Tony - BSc, PhD
 Harrison, Rene - BS, MS, PhD
 Hasenkampf, Clare - BSc, MS, PhD
 Hilfinger, Andreas - MA, MSc, PhD
 Holmes, Melissa - BA, MA, PhD
 Ito Lee, Rutsuko - BA, PhD
 Kanelis, Voula - PhD
 Kim, Junchul - BSc, MSc, PhD
 Kohn, Linda - BS, PhD
 Kronzucker, Herbert - PhD
 Lange, Angela - BSc, PhD
 Levine, Joel - BA, PhD
 Liu, Baohua - BSc, MSc, PhD
 Lovejoy, David - PhD
 Lovejoy, Nathan Richard - BSc, MS, PhD
 Martin, Loren - BSc, MSc, PhD
 Mason, Andrew - MS, PhD
 Master, Emma - BSc, PhD
 McCourt, Peter - PhD
 McFarlane, Heather - DSc
 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
 Mott, Adam - BSc, PhD
 Nambara, Eiji - MS, PhD
 Nash, Joanne - BS, MSc, PhD

Ness, Robert - BSc, PhD
 Orchard, Ian - BSc, PhD, DSc
 Peever, John - MSc, PhD
 Phillips, Michael - BSc, PhD
 Plotnikov, Sergey - DSc
 Provart, Nicholas - PhD
 Reber, Michael - PhD
 Reid, Stephen - BS, PhD
 Rhee, Ho-Sung - BS, MS, PhD
 Richards, Blake - BS, MS, PhD
 Riggs, Dan - BS, PhD
 Ringuette, Maurice - BSc, PhD
 Ryu, William - AB, PhD
 Senatore, Adriano - BSc, MSc, PhD
 Shin, Jumi - AB, DPhil
 Sokolowski, Marla - BSc, PhD, CRC
 Stephenson, Richard - BSc, PhD
 Stewart, Bryan - BSc, MS, DPhil
 Takehara, Kaori - BSc, MSc, PhD
 Tepass, Ulrich - MSc, PhD, CRC, FRSC
 Terebiznik, Mauricio - BSc, PhD
 Thiele, Tod - BS, PhD
 Treanor, Bebhinn Lucy - BSc, PhD
 Tropepe, Vince - BSc, PhD (**Chair and Graduate Chair**)
 Vanlerberghe, Greg - BSc, MSc, PhD
 Welch Jr., Ken - BS, MA, PhD
 Westwood, Tim - PhD
 Winklbauer, Rudolf - MSc, PhD
 Woodin, Melanie - MSc, PhD
 Yoshioka, Keiko - PhD
 Zhao, Rongmin - BSc, PhD
 Zhen, Mei - PhD
 Zovkic, Iva - BA, MA, PhD

Members Emeriti

Coleman, John - BSc, PhD
 Varmuza, Susannah - BSc, MSc, PhD

Associate Members

Fittipaldi, Nahuel Vicente - BS, MS, PhD
 Lumba, Shelley - PhD
 Saltzman, Arneet - BSc, PhD
 Subramaniam, Rajagopal - PhD
 Walters, Brandon - BA, MS, PhD
 Wang, Pauline - DSc

Cell and Systems Biology: Cell and Systems Biology MSc

Master of Science

Program Description

The MSc program in Cell and Systems Biology provides ideal training for career paths in education, business, and policy where science-based decision-making and the interpretation and transmission of scientific information are becoming increasingly important, particularly in many of the “knowledge-based” economies that are emerging the world over. The MSc program trains scientists who are well suited to fill this demand. The program’s objective is to provide students

with skills in the generation, critical evaluation, assessment, and communication of data so that they are equipped to proceed with further post-graduate degrees, or other career opportunities where such skills are desired.

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* (1.0 FCE, 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

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

Time Limit

3 years full-time

Cell and Systems Biology: Cell and Systems Biology PhD

Doctor of Philosophy

Program Description

The PhD program in Cell and Systems Biology trains scientists who will form part of the next generation of independent researchers in cell, molecular, and systems biology. Graduates will be the future high-level teachers, frontier expanders, and decision-makers in these fields of inquiry.

PhD graduates are expected to emerge from the program as independent and autonomous scientists, producing a written thesis that describes original research that stands as a testimony to their ability to generate publishable, stand-alone contributions to the peer-reviewed scientific literature. As part of their training, PhD students acquire skills in the communication of scientific research (including teaching skills), and acquire broad-based knowledge of the theory and practice underpinning their chosen field.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the

University of Toronto MSc program; or 3) direct entry following completion of an honours bachelor's degree.

PhD Program

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.
- Students will be admitted only when they have made arrangements to secure a research supervisor by contacting professors in the department.
- 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.

Program Requirements

- Students must successfully complete:
 - **1.0 full-course equivalent (FCE)** of approved graduate coursework.
 - CSB 1011Y **PhD Seminar Series** (1.0 FCE, minimum 24 seminars per year).
 - A **PhD proposal**, which involves three components:
 - preparation of a written research proposal
 - presentation to the department and questioning by the public
 - *in-camera* questioning by a PhD proposal examination committee immediately following the public presentation.
 - Their **proposal examination** between 13 and 20 months after the start date of enrolment in their graduate program.
- 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

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Applicants may be accepted first into the University of Toronto MSc program and, conditional upon approval by the thesis supervisory committee, may transfer into the PhD program.

Program Requirements

Students must:

- Be in good academic standing at the end of Year 1.
- Successfully complete **1.0 full-course equivalent (FCE)** of approved graduate coursework. Those who transfer into the PhD program from the MSc may apply 0.5 graduate FCE towards the PhD course requirements.
- Successfully complete CSB 1011Y **PhD Seminar Series** (1.0 FCE, minimum 24 seminars per year).
- Successfully complete a **PhD transfer examination** between 13 and 20 months after the start date of enrolment in their graduate program. The transfer examination involves three components:
 - preparation of a written research proposal
 - presentation to the department and questioning by the public
 - *in-camera* questioning by a PhD proposal examination committee immediately following the public presentation.
- Deliver **two public seminars** in the department based on their thesis research.
- Submit a **thesis** and defend it at a **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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.
- Applicants will be admitted only when they have made arrangements to secure a research supervisor by contacting professors in the department.
- Exceptional applicants with a BSc degree may be accepted by direct entry into the PhD program, with a grade point average equivalent to a University of Toronto A- or better in the final year of the BSc. Direct-entry PhD candidates should also display evidence of research potential.

Program Requirements

Students must:

- Be in good academic standing at the end of Year 1.
- Successfully complete **1.0 full-course equivalent (FCE)** of approved graduate coursework.
- Successfully complete CSB 1011Y **PhD Seminar Series** (1.0 FCE, minimum 24 seminars per year).
- Complete additional courses if their undergraduate preparation does not include the study of subjects deemed to be necessary for research in the chosen area. The courses will be chosen in consultation with the supervisory committee.

- Successfully complete a **PhD proposal**, which involves three components:
 - preparation of a written research proposal
 - presentation to the department and questioning by the public
 - *in-camera* questioning by a PhD proposal examination committee immediately following the public presentation.
- Students must successfully complete their **proposal examination** between 13 and 20 months after the start date of enrolment in their graduate program.
- Deliver **two public seminars** in the department based on their thesis research.
- Submit a **thesis** and defend it at a **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.

Program Length

5 years

Time Limit

7 years

Cell and Systems Biology: Cell and Systems Biology MSc, PhD Courses

Consult the graduate unit regarding course availability.

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
CSB 1482H	Readings in Genome Biology and Bioinformatics

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

Chemical Engineering and Applied Chemistry

Chemical Engineering and Applied Chemistry: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Chemical Engineering and Applied Chemistry

MASc

- Emphasis:
 - Sustainable Energy

MEng

- Emphases:
 - Advanced Manufacturing;
 - Advanced Soft Materials;
 - Advanced Water Technologies;
 - Analytics;
 - Biomanufacturing;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Forensic Engineering;
 - Sustainable Energy

PhD

- Emphasis:
 - Sustainable Energy

Combined Degree Programs

- [UTSC, Environmental Biology \(Specialist\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Biology \(Specialist Co-op\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Chemistry \(Specialist\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Chemistry \(Specialist Co-op\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Geoscience \(Specialist\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Geoscience \(Specialist Co-op\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Physics \(Specialist\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)
- [UTSC, Environmental Physics \(Specialist Co-op\), Honours BSc / Chemical Engineering and Applied Chemistry, MEng](#)

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Chemical Engineering and Applied Chemistry, MASc, PhD
- [Cardiovascular Sciences](#)
 - Chemical Engineering and Applied Chemistry, MASc, PhD
- [Engineering Education](#)
 - Chemical Engineering and Applied Chemistry, MASc, PhD
- [Environmental Studies](#)
 - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD
- [Environment and Health](#)
 - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD
- [Genome Biology and Bioinformatics](#)
 - Chemical Engineering and Applied Chemistry, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Chemical Engineering and Applied Chemistry, MASc, MEng, PhD

Overview

The Department of Chemical Engineering and Applied Chemistry offers graduate research in pure science, engineering fundamentals, and engineering applications. 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:

- Biomolecular and Biomedical Engineering
- Bioprocess Engineering
- Chemical and Materials Process Engineering
- Engineering Informatics
- Environmental Science and Engineering
- Pulp and Paper
- Surface and Interface Engineering
- Sustainable Energy

Contact and Address

Web: chem-eng.utoronto.ca

Admissions email: admissgrad.chemeng@utoronto.ca

General email: gradassist.chemeng@utoronto.ca

Telephone: (416) 946-3987

Fax: (416) 978-8605

Department of Chemical Engineering and Applied Chemistry
University of Toronto
Room 216a, Wallberg Building
200 College Street

Toronto, Ontario M5S 3E5
Canada

Chemical Engineering and Applied Chemistry: Graduate Faculty

Full Members

Acosta, Edgar Joel - BS, MS, PhD
 Allen, D. Grant - BASc, MAsC, PhD (**Chair and Graduate Chair**)
 Audet, Julie - MAsC, PhD
 Azimi, Gisele - BASc, MAsC, PhD
 Bender, Timothy - PhD
 Chan, Arthur - BS, MSc, PhD
 Cheng, Yu-Ling - SB, PhD
 Chin, Cathy Ya Huei - BSc, MSc, PhD
 Cluett, William - BSc, PhD
 Cormack, Donald - BASc, MAsC, PhD
 Coyle, Tom - BS, BA, ScD
 DeMartini, Nikolai - BSc, MSc, PhD
 Diamond, Miriam - MSc, MSc, PhD
 Diosady, Levente - BASc, MAsC, PhD
 Edwards, Aled - BSc, PhD
 Edwards, Elizabeth - BEng, PhD
 Evans, Greg - PhD
 Farnood, Ramin - BASc, MAsC, PhD
 Fulthorpe, Roberta - BSc, MSc, PhD
 Gu, Frank - BSc, PhD
 Howe, Jane - PhD
 Iakounine, Alexander - MSc, ScD
 Jia, Charles - BEng, MEng, PhD
 Kawaji, Masahiro - BASc, MSc, PhD
 Kirk, Donald - BASc, MAsC, PhD
 Kortschot, Mark - BASc, MAsC, PhD
 Kraatz, Heinz-Bernhard - BA, MC, PhD
 Kumacheva, Eugenia - MSc, PhD
 Lawryshyn, Yuri - DiplIng, BASc, MAsC, MBA, PhD
 MacLean, Heather L - BASc, MAsC, MBA, PhD, PEng
 Mahadevan, Radhakrishnan - BTech, PhD (**Associate Chair and Graduate Coordinator**)
 Master, Emma - BSc, PhD
 McGuigan, Alison - MEng, PhD
 Mims, Charles - PhD
 Naguib, Hani - BSc, ME, PhD, PEng
 Newman, Roger Charles - BA, PhD, DSc
 Papangelakis, Vladimirov - MEng, PhD
 Radisic, Milica - BEng, PhD
 Ramchandran, Arun - PhD
 Reeve, Douglas - BSc, MAsC, PhD
 Savchenko, Alexei - MS, PhD
 Saville, Bradley - BSc, PhD
 Seferos, Dwight - BCh, DChem
 Sefton, Michael - BASc, ScD
 Sherwood Lollar, Barbara - PhD
 Shoichet, Molly - PhD
 Thomson, Murray - BSc, PhD
 Thorpe, Steven - BASc, MAsC, PhD
 Tran, Honghi - PhD
 Wania, Frank - MPH, PhD
 Winnik, Mitchell - BA, PhD
 Yan, Ning - BSc, PhD, PEng
 Yip, Christopher - BSc, PhD
 Zandstra, Peter - BEng, 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

Brook, Jeffrey - BS, MS, PhD
 Chan, Ariel - BSc, MSc, PhD
 Goacher, Robyn - BS, PhD
 Krause, Eberhard - MAsC, PhD
 Moore, Emily - BASc, DPhil
 Norval, Graeme - BASc, MAsC, PhD
 Sodhi, Rana - BSc, MSc, PhD
 Tabe, Shahram - BASc, MAsC, PhD
 Wolfaardt, Gideon - BSc, MSc, PhD

Chemical Engineering and Applied Chemistry: Chemical Engineering and Applied Chemistry MAsC

Master of Applied Science

Program Description

The MAsC program is ideal for students who aspire to a rewarding career in research, whether in academia or industry. It is a stepping stone to a doctoral (PhD) degree.

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.
- A four-year degree (or equivalent) in engineering or the physical/chemical/biological sciences with a B+ average (or equivalent) in each of the last two years of full-time study.

Program Requirements

- Each student should discuss possible research projects with several members of the department before selecting a research area and a supervisor. Students must complete a **thesis** on a research topic.
- **Coursework.** Students must complete at least three graduate half courses (**1.5 full-course equivalents [FCEs]**) as follows:

- One course must normally be selected from Category A: fundamental courses (see courses below).
- At least one course must be selected in an area outside the student's area of research.
- Only one 500-level course may be taken for credit towards the degree program.
- Students must attend four sessions of the **CHE 300xH seminar series** (Credit/No Credit).
- Students must complete **CHE 1102H Research Methods and Project Execution** once during their program, typically in Year 1.
- Students must also complete CHE 2222H *Safety Workshop* and JDE 1000H *Ethics in Research*.
- The program requires a minimum full-time **residence** of two sessions (eight months). This means students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.
- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MASC, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years full-time

Chemical Engineering and Applied Chemistry: Chemical Engineering and Applied Chemistry MEng

Master of Engineering

Program Description

The MEng program is designed for engineers who wish to enhance their career opportunities in as little as one year of full-time study. Students undergo advanced professional training that is respected by employers and differentiates them in a crowded marketplace. 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 MEng program can be taken on a full-time, extended full-time, or part-time basis. The part-time option is intended primarily for engineers in full-time professional practice.

Full-Time Option

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.
- A Bachelor of Engineering (BEng) or Bachelor of Applied Science (BASC) degree in engineering with at least a mid-B (or equivalent) in each of the last two years of full-time study.

Program Requirements

- The MEng 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.
- Students normally complete the requirements in three sessions (one year).
- Students have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MASC, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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.
- A Bachelor of Engineering (BEng) or Bachelor of Applied Science (BASC) degree in engineering with at least a mid-B (or equivalent) in each of the last two years of full-time study.

Program Requirements

- The MEng 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.
- Students are expected to complete the requirements in six sessions (two years). They are limited to six half courses per year and three half courses per session.
- Students have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

** Students may begin the program at different times.

Part-Time Option

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.
- A Bachelor of Engineering (BEng) or Bachelor of Applied Science (BAsc) degree in engineering with at least a mid-B (or equivalent) in each of the last two years of full-time study.

Program Requirements

- The MEng 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.
- Students normally complete the requirements in nine sessions (three years). They are limited to four half courses per year and two half courses per session.
- Students have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

Chemical Engineering and Applied Chemistry: Chemical Engineering and Applied Chemistry PhD

Doctor of Philosophy

Program Description

The PhD program is designed for students who wish to become an expert in a specific research area and is a stepping stone to a career in academia. Students work alongside world-renowned researchers while gaining profound depth and experience in their field of study.

Applicants may enter the program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MSc program after completing one year; or 3) direct entry following completion of a bachelor's degree, in exceptional cases. The program can also be taken on a flexible-time basis.

PhD Program

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.
- B+ (or equivalent) in each of the last two years of full-time study in the undergraduate program, and successful completion of a research master's degree with an overall average of at least B+ (or equivalent).
- Applicants may enter the PhD program following **completion of an MSc 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.

Program Requirements

- **Coursework.** Students must complete at least **2.0 full-course equivalents (FCEs)**.
 - Courses must be selected from the calendar and approved by the student's supervisor and the Graduate Coordinator. At least one of these courses must be taken in a secondary 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 must complete eight sessions of the **CHE 300xH seminar series** (Credit/No Credit).
- Students must also take **CHE 1102H Research Methods and Project Execution** once during their program, typically in Year 1.
- If not already completed, students must take CHE 2222H *Safety Workshop* and JDE 1000H *Ethics in Research*.
- **Thesis** on a research topic.
- Within 9 to 12 months of starting the PhD program, students must pass a **qualifying examination**.
- 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 have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- B+ (or equivalent) in each of the last two years of full-time study in the undergraduate program.
- Applicants may enter the PhD program by transferring from the University of Toronto MSc program after completing one year; such students must successfully complete a bypass examination.
- International applicants with a master's degree from outside Canada or the United States may be asked to register in the MSc program and follow the transfer route of entry.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** and do not have to take a separate PhD qualifying examination.
 - 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 secondary 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 must complete eight sessions of the **CHE 300xH seminar series** (Credit/No Credit).
- If not already completed, students must take CHE 2222H *Safety Workshop* and JDE 1000H *Ethics in Research*.
- **Thesis** on a research topic.

- 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 have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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.
- Minimum A- average in each of the final two years of study in the undergraduate program, and participation in a research project (either through an undergraduate thesis or through research conducted in a lab).

Program Requirements

- **Coursework.** Students must complete at least **3.0 full-course equivalents (FCEs)**.
 - Courses must be selected from the calendar and approved by the student's supervisor and the Graduate Coordinator. At least one of these courses must be taken in a secondary 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 must complete eight sessions of the **CHE 300xH seminar series** (Credit/No Credit).
- Students must also take **CHE 1102H Research Methods and Project Execution** once during their program, typically in Year 1.
- If not already completed, students must take CHE 2222H *Safety Workshop* and JDE 1000H *Ethics in Research*.
- Within 9 to 12 months of starting the PhD program, students must pass a **qualifying examination**.
- **Thesis** on a research topic.
- 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 have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please

see details in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Flexible-Time)

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.
- B+ (or equivalent) in each of the last two years of full-time study in the undergraduate program, and successful completion of a research master's degree with an overall average of at least B+ (or equivalent).
- Applicants may enter the PhD following completion of an MSc 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.
- 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 option must also demonstrate that they are actively engaged in professional activities related to their proposed program of study.

Program Requirements

- Students in the flexible-time option will be subject to the same requirements as students in the full-time option.
- Students must complete at least **2.0 full-course equivalents (FCEs)**.
 - Courses must be selected from the calendar and approved by the student's supervisor and the Graduate Coordinator. At least one of these courses must be taken in a secondary 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 must complete eight sessions of the **CHE 300xH seminar series** (Credit/No Credit).
- Students must also take **CHE 1102H Research Methods and Project Execution** once during their program, typically in Year 1.
- If not already completed, students must take CHE 2222H *Safety Workshop* and JDE 1000H *Ethics in Research*.
- Within 16 months of starting the PhD program, students must pass a **qualifying examination**.
- **Thesis** on a research topic.
- 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 in the Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases section.

Program Length

6 years

Time Limit

8 years

Chemical Engineering and Applied Chemistry: Chemical Engineering and Applied Chemistry MSc, MEng, PhD Emphases

Emphasis: Advanced Manufacturing (MEng only)

MEng students must successfully complete:

- **Four half courses (2.0 full-course equivalents [FCEs])**, including at least one core course.
- Elective courses may include other core courses, and courses from either of two streams: Manufacturing Engineering and Manufacturing Management.

Core Courses

AER 501H, AER 1403H, APS 1028H, CHE 1123H, MIE 519H, MIE 1740H.

Elective Courses — Manufacturing Engineering

AER 521H, AER 1415H, CHE 575H, CHE 1134H, MIE 506H, MIE 540H, MIE 1706H, MIE 1713H, MIE 1718H, MIE 1743H, MSE 558H, MSE 561H, MSE 1015H, MSE 1028H, MSE 1031H, ROB 501H.

Elective Courses — Manufacturing Management

APS 1005H, APS 1012H, APS 1013H, APS 1014H, APS 1017H, APS 1020H, APS 1023H, APS 1040H, APS 1088H, APS 1420H, CHE 561H, CHE 1434H, MIE 523H, MIE 1505H, MIE 1514H, MIE 1715H, MIE 1721H, MIE 1723H, MIE 1727H, TEP 1011H, TEP 1026H, TEP 1501H.

Emphasis: Advanced Soft Materials (MEng only)

MEng students must successfully complete any **four half courses (2.0 full-course equivalents [FCEs])** from the following list:

CHE 562H, CHE 1310H, CHE 1333H, CHE 1335H, CHE 1475H,

JTC 1134H, JTC 1135H,

MIE 1705H, MIE 1706H, MIE 1707H, MIE 1740H,

MSE 1038H, MSE 1043H, MSE 1067H.

Students may double-count one course at most towards any CHE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Advanced Water Technologies (MEng only)

MEng students must successfully complete **two core courses (1.0 full-course equivalent [FCE])** and **two specialized courses (1.0 FCE)**.

- Two core courses (1.0 FCE):
 - CHE 1150H *Industrial Water Technology*
 - at least one of the following (any of the other three can count as a specialized course):
 - CHE 565H *Aqueous Process Engineering*
 - CIV 541H *Environmental Biotechnology*
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*
 - CIV 1303H *Water Resources Systems Modeling*
 - CIV 1308H *Physical and Chemical Treatment Processes*
 - CIV 1311H *Advanced and Sustainable Drinking Water Treatment*
 - CIV 1319H *Chemistry and Analysis of Water and Wastes*
 - CIV 1399H *Special Studies in Civil Engineering* (e.g., Water Sanitation and Hygiene; Treatment Wetlands; the topic is subject to obtaining approval from the student's graduate unit)
 - CIV 1499H *Special Studies in Civil Engineering* (e.g., Fundamentals of Acid Mine Drainage; the topic is subject to obtaining approval from the student's graduate unit).
- Two specialized courses selected from the following (1.0 FCE):
 - CHE 1213H *Corrosion*
 - CHE 1430H *Hydrometallurgy Theory and Practice*
 - JCC 1313H *Environmental Microbiology*
 - JNC 2503H *Environmental Pathways*
 - MIE 1807H *Principles of Measurements*
 - STA 1004H *Introduction to Experimental Design*.

Enrolment Contact

Enrolment in the emphasis is permitted at any time during the MEng program. After students are admitted to the normal MEng program, students may contact [Prof. Ron Hofmann](#), (416) 946-7508.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, students will receive a transcript notation from the Faculty Graduate Studies office (subject to Prof. Hofmann's recommendation).

Emphasis: Analytics (MEng only)

To be admitted to the emphasis in Analytics, MEng students must first successfully complete a **prerequisite course APS 1070H (0.5 full-course equivalent [FCE])**.

Subsequently, to earn the emphasis, students must successfully complete **four additional half courses (2.0 FCEs)** from the list of core courses or elective courses. These must include at least one core course; the remaining courses must be selected from the list of elective courses.

Students must have completed the prerequisite course APS 1070H before taking any of the core courses.

Prerequisite Course

APS 1070H *Foundations of Data Analytics and Machine Learning*

Core Courses

CHE 1147H *Data Mining in Engineering*
 ECE 1513H *Introduction to Machine Learning* (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1504H)
 MIE 1624H *Introduction to Data Science and Analytics*
 MSE 1065H *Application of Artificial Intelligence in Materials Design* (exclusion: MSE 1063H)

Elective Courses

APS 502H, APS 1005H, APS 1017H, APS 1022H, APS 1040H, APS 1050H, APS 1051H, APS 1052H, APS 1053H, CHE 507H, CHE 1108H, CHE 1148H, CHE 1434H, CIV 1504H, CIV 1506H, CIV 1507H, CIV 1532H, CIV 1538H, ECE 537H, ECE 1504H (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1513H), ECE 1505H, ECE 1657H, ECE 1778H, ECE 1779H, MIE 562H, MIE 1413H, MIE 1501H, MIE 1512H, MIE 1513H, MIE 1620H, MIE 1621H, MIE 1622H, MIE 1623H, MIE 1628H, MIE 1653H, MIE 1721H, MIE 1723H, MIE 1727H, MSE 1063H (exclusion: MSE 1065H).

Emphasis: Biomanufacturing (MEng only)

MEng students must successfully complete any four half courses (2.0 full-course equivalents [FCEs]) from the following list:

CHE 1123H, CHE 1125H, CHE 1133H, CHE 1134H, CHE 1135H, CHE 1334H, JCC 1313H, JTC 1331H, BME 1459H, BME 1480H.

Students may double-count one course at most towards any CHE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Forensic Engineering (MEng only)

MEng students must successfully complete **four courses (one core course and three elective courses)**.

Core Course

MSE 1031H

Elective Courses

APS 540H, APS 1034H, APS 1039H, APS 1040H, BME 1800H, BME 1801H, BME 1480H, CHE 561H, CHE 568H, CHE 1213H, CHE 1431H, CHE 1432H, CHE 1434H, CIV 510H, CIV 518H, CIV 1163H, CIV 1171H, CIV 1174H, CIV 1190H, CIV 1201H, CIV 1279H, CIV 1282H, CIV 1422H, CIV 1429H, JMB 1050H, JNC 2503H, MSE 1015H, MSE 1022H, MSE 1032H, MIE 566H, MIE 1224H, MIE 1301H, MIE 1303H, MIE 1411H, MIE 1414H, MIE 1616H, MIE 1713H, MIE 1714H, MIE 1721H, MIE 1723H, MIE 1727H, MIE 1804H.

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A **thesis** towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- **Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H, CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H, ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE 1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H, MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1240H, MIE 1241H, MIE 1715H, MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

Chemical Engineering and Applied Chemistry: Chemical Engineering and Applied Chemistry MSc, MEng, PhD Courses

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 502H	Financial Engineering
APS 510H	Innovative Technologies and Organizations in Global Energy Systems
APS 530H	Appropriate Technology and Design for Global Development
APS 1001H	Project Management
APS 1004H	Human Resource Management: An Engineering Perspective
APS 1005H	Operations Research for Engineering Management
APS 1009H	Natural Resources Management
APS 1012H	Managing Business Innovation and Transformational Change
APS 1013H	Applying Innovation in Engineering and Business Operations
APS 1014H	Advanced Project Management
APS 1015H	Social Entrepreneurship
APS 1016H	Financial Management for Engineers
APS 1017H	Supply Chain Management and Logistics
APS 1018H	History and Philosophy of Engineering
APS 1020H	International Business for Engineers
APS 1022H	Financial Engineering II

APS 1023H	New Production Innovation
APS 1024H	Infrastructure Resilience Planning
APS 1025H	Infrastructure Protection
APS 1028H	Operations and Production Management for Manufacturing and Services
APS 1031H	Infrastructure Planning
APS 1032H	Introduction to Energy Project Management
APS 1033H	Business Innovation Leading to the Future, Based on Imagineering
APS 1034H	Making Sense of Accidents
APS 1035H	Technology Sales for Entrepreneurs
APS 1036H	Formative Experiential Entrepreneurial Learning (FEEL)
APS 1070H	Foundations of Data Analytics and Machine Learning
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 5500H	Research Methods and Project Execution for Graduate Student Success (exclusion: CHE 1102H)
CHE 507H	Process Modelling and Simulation
CHE 553H	Electrochemistry
CHE 561H	Risk Based Safety Management
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 1108H	Numerical Methods in Chemical Engineering
CHE 1123H	Liquid Biofuels
CHE 1125H	Modelling and Optimization of Chemical and Biomedical Networks
CHE 1133H	Bioprocess Engineering (prerequisite: JCC 1313H or equivalent)
CHE 1134H	Advances in Bioengineering
CHE 1135H	Regulatory Affairs for Industrial Biotechnology and Biopharmaceutical Products
CHE 1147H	Data Mining in Engineering
CHE 1148H	Process Data Analytics
CHE 1150H	Industrial Water Technology
CHE 1151H	Engineering Systems Sustainability
CHE 1213H	Corrosion
CHE 1333H	Biomaterials Engineering for Nanomedicine
CHE 1334H	Organ-on-a-Chip Engineering
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 1475H	Biocomposite Materials
JCB 1349H	Molecular Assemblies: Structure/Function/Properties

JCC 1313H	Environmental Microbiology
JCR 1000Y	An Interdisciplinary Approach to Addressing Global Challenges
JNC 2503H	Environmental Pathways
JTC 1331H	Biomaterials Science
TEP 1010H	Cognitive and Psychological Foundations of Effective Leadership
TEP 1011H	Authentic Leadership: Engineering a Vibrant Future
TEP 1026H	Positive Psychology for Engineers
TEP 1027H	Engineering Presentations
TEP 1029H	The Science of Emotional Intelligence and its Application to Leadership
TEP 1030H	Engineering Careers . Theories and Strategies to Manage Your Career for the Future
TEP 1501H	Leadership and Leading in Groups and Organizations
TEP 1502H	Leading Engineering Design Projects

Seminar Courses

CHE 1102H	Research Methods and Project Execution
CHE 300xH	Seminars in Chemical Engineering and Applied Chemistry (Credit/No Credit)

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.

Chemistry

Chemistry: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Chemistry

MSc

- Fields:
 - Analytical Chemistry;
 - Environmental Chemistry;
 - Inorganic Chemistry;
 - Interdisciplinary;
 - Organic and Biological Chemistry;
 - Physical Chemistry and Chemical Physics;
 - Polymers and Materials Chemistry

PhD

- Fields:
 - Analytical Chemistry;
 - Environmental Chemistry;
 - Inorganic Chemistry;
 - Interdisciplinary;
 - Organic and Biological Chemistry;
 - Physical Chemistry and Chemical Physics;
 - Polymers and Materials Chemistry

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Chemistry, MSc, PhD
- [Environmental Studies](#)
 - Chemistry, MSc, PhD

Overview

Faculty members of the Department of Chemistry are world leaders and research offerings are made in a rich array of ever evolving sub-disciplines (physical, organic, biological, materials, inorganic, theoretical, analytical, environmental, and nanochemistry). Research is conducted using state-of-the-art instrumentation housed in laboratories that have been newly built or recently renovated.

Modern facilities are available for research in the Department of Chemistry. 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: chem.gradasst@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

Chemistry: Graduate Faculty

Full Members

Abbatt, Jonathan - BSc, PhD
 Aspuru-Guzik, Alan - PhD
 Batey, Robert Alexander - BA, PhD (**Chair and Graduate Chair**)
 Bender, Timothy - PhD
 Brumer, Paul - 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
 Izmaylov, Artur - 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. Wayne - BSc, PhD
 Morris, Robert - BSc, PhD, Fellow NATO
 Murphy, Jennifer - BCh, DChem
 Nitz, Mark - BSc, PhD
 Ozin, Geoffrey - BSc, PhD
 Peng, Hui - PhD
 Polanyi, John - MSc, PhD, DSc, FRSC, FRS
 Prosser, Scott - BSc, MSc, DPhil
 Rousseaux, Sophie - PhD
 Schofield, Jeremy - PhD
 Scholes, Greg - MSc, PhD
 Seferos, Dwight - BCh, DChem
 Segal, Dvira - BSc, DSc
 Sherwood Lollar, Barbara - PhD
 Shin, Jumi - AB, DPhil
 Shoichet, Molly - PhD
 Simpson, Andre - BSc, PhD
 Simpson, Myrna - BS, DPhil
 Song, Datong - BSc, PhD
 Stephan, Douglas - BSc, PhD

Sullan, Ruby May - BSc, PhD
 Taylor, Mark - BSc, DSc
 Thompson, Michael - BSc, PhD, DSc, FRSC
 Voznyy, Oleksandr - BSc, MSc, PhD
 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 - BS, PhD
 Zamble, Deborah - BSc, PhD
 Zhang, Xiaolan - MS, PhD

Members Emeriti

Csizmadia, Imre - MSc, PhD
 Jones, Bryan - BSc, PhD, DPhil
 McLean, Stewart - BSc, PhD
 Menzinger, Michael - MS, PhD
 Reynolds, William - BSc, PhD
 Robinson, Edward - BSc, PhD, DSc
 Tidwell, Thomas - BS, AM, PhD
 Valteau, John Philip - PhD

Associate Members

Dicks, Andy - PhD
 Muir, Derek - BSc, MSc, PhD
 Rauscher, Sarah - BSc, PhD
 Reiner, Eric - BSc, MSc, PhD

Chemistry: Chemistry MSc

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.
- Appropriate bachelor's degree from a recognized university with an average equivalent to at least a University of Toronto B+.

Program Requirements

- **Coursework.** Students must successfully complete **1.0 graduate full-course equivalent (FCE)** including at least 0.5 graduate half-course equivalent in chemistry.
- Students must participate in a **seminar** program. Attendance and presentation of a seminar are mandatory in order to receive the credit.
- In Year 1, students must complete the modules in CHM 3000H *Graduate Professional Development for Research and Teaching in Chemistry* (0.5 FCE; CR/NCR).
- Submission of a **thesis**.

Program Length

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

Time Limit

3 years full-time

Chemistry: Chemistry PhD

Doctor of Philosophy

Applicants may enter the PhD program via one of three routes: 1) following completion of an appropriate master's d..... ; 2) transfer from the University of Toronto master's program; or 3) direct entry following completion of an appropriate BSc degree. PhD students select one of the following fields:

- Analytical Chemistry
- Environmental Chemistry
- Inorganic Chemistry
- Organic and Biological Chemistry
- Physical Chemistry and Chemical Physics
- Polymers and Materials Chemistry
- Interdisciplinary, which allows combinations with 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. Students who have completed the master's program may be considered for a course reduction of up to 1.0 FCE in the PhD program. Specific requirements for each field follow.

Field: Analytical Chemistry

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 Year 1 of the master's program.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** from approved graduate courses:
 - 0.5 FCE in analytical chemistry in each of the areas of spectroscopy, separation science/electrochemistry, and advanced instrumentation/data analysis.

- An additional 0.5 FCE to support the research program.
- The number of courses required will be determined in consultation with the supervisor. Students who have completed the master's program may be considered for a course reduction of up to 1.0 FCE in the PhD program.
- Presentation of **two seminars**. Participation in the *Analytical Chemistry Seminar* (CHM 1190Y). Students must complete [25 Analytical Seminar Plus \(ASP\) points](#).
- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and Teaching Skills. Consult with the Graduate Office for a list of eligible activities.
- Successful completion of an **oral comprehensive field examination** in Analytical Chemistry.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Environmental Chemistry

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 Year 1 of the master's program.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** from approved graduate courses:
 - CHM 1401H *Transport and Fate of Chemical Species in the Environment* (0.5 FCE).
 - At least one other course in Environmental Chemistry.
 - 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.

- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and Teaching Skills. Consult with the Graduate Office for a list of eligible activities.
- Presentation of **two seminars** (normally in Years 2 and 4). Participation in the *Environmental Chemistry Seminar* and colloquia program (CHM 1590Y).
- A written **research proposal**, defended orally, on a topic other than the primary research topic delivered prior to the end of Year 2.
- Successful completion of an **oral comprehensive field examination** in Environmental Chemistry, normally completed following coursework and before the end of Year 2.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Inorganic Chemistry

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 Year 1 of the master's program.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** from approved graduate courses:
 - One core half course (0.5 FCE): CHM 1270 or CHM 1266H.
- In Year 1, students must complete the modules in **CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and

Teaching Skills. Consult with the Graduate Office for a list of eligible activities.

- Participation in the *Inorganic Chemistry Seminar* (CHM 1290Y): the presentation of **one seminar each year** in Years 2, 3, and 4, including one on an original research proposal.
- Successful completion of an **oral comprehensive field examination** in Inorganic Chemistry.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Organic and Biological Chemistry

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 Year 1 of the master's program.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** from approved graduate courses:
 - At least two Organic Chemistry graduate half courses selected from CHM 1040H to CHM 1068H (inclusive).
 - Students may be required to take courses offered in physical organic, synthetic organic, and biological chemistry. The courses will be selected in consultation with the supervisor and confirmed by the Graduate Studies Committee field representative.
- Students must pass **six cumulative exams** in order for students to qualify to give the oral comprehensive field exam and advance to PhD candidacy. They are generally written on the first Friday of the month from October through May (inclusive).
- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and

Teaching Skills. Consult with the Graduate Office for a list of eligible activities.

- Participation in the *Organic Chemistry Seminar* (CHM 1090Y): present **two seminars**, normally in Years 2 and 4.
- Upon completion of coursework and cumulative exams, students will take an **oral comprehensive field exam** in Organic and Biological Chemistry.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Physical Chemistry and Chemical Physics

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 Year 1 of the master's program.

Program Requirements

- Students may select an Experimental Physical Chemistry path requiring:
 - 2.0 full-course equivalents (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.
- **Or** students may select a Theoretical Physical Chemistry path requiring:
 - 3.0 FCEs, including two core half courses. Specifics are to be determined by the research director and the student.
- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and Teaching Skills. Consult with the Graduate Office for a list of eligible activities.
- Presentation of **two seminars**, normally in Years 2 and 4. Participation in the *Physical Chemistry Seminar* (CHM 1490Y).

- Successful completion of an **oral comprehensive field examination** in Physical Chemistry and Chemical Physics.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Polymers and Materials Chemistry

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 Year 1 of the master's program.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** from approved graduate courses:
 - 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.
- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and Teaching Skills. Consult with the Graduate Office for a list of eligible activities.
- Presentation of at least **three seminars** (a literature talk in Year 1 and presentations on the original research in Years 2 and 4). Participation in the *Polymers and Materials Chemistry Seminar* (CHM 1390Y).
- Upon the completion of coursework, successful performance in an **oral comprehensive field examination** in Polymers and Materials Chemistry.
- The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Field: Interdisciplinary

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 Year 1 of the master's program.
- Acceptance into this field requires a research topic of a truly interdisciplinary nature; a written request must be submitted to the Graduate Coordinator.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** including one core half course from the above fields.
- In Year 1, students must complete the **modules in CHM 3000H Graduate Professional Development for Research and Teaching in Chemistry** (0.5 FCE; CR/NCR).
- Students must complete a minimum of 18 hours (24 hours for direct-entry students) of additional **professional development training** spread evenly over the categories: Communication, Personal Effectiveness, and Research and Teaching Skills. Consult with the Graduate Office for a list of eligible activities.
- Presentation of at least **two seminars** (normally in Years 2 and 4). Participation in the seminar program of an existing field of Chemistry.
- Upon completion of coursework, successful completion of an **oral comprehensive field examination** in the fields of Chemistry deemed appropriate.
 - The main requirement for the PhD program is the execution of an original investigation that is presented in a **thesis**.

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

Chemistry: Chemistry MSc, PhD Courses

Not all courses are offered every year. Please consult the department each session as to course availability.

Professional Development

CHM 3000H	Graduate Professional Development for Research and Teaching in Chemistry (Credit/No Credit)
-----------	---

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 1107H	The -Omics Revolution and Mass Spectrometry
CHM 1150H	Advances in Electroanalytical Chemistry and Electrochemical Sensors
CHM 1152H	Chemical Sensors
CHM 1157H	Applications of Chemometrics
CHM 1190Y ⁰	Analytical Chemistry Seminar (Credit/No Credit)
CHM 1410H	Analytical Environmental Chemistry
CHM 2014H	Research in Analytical Chemistry

Environmental Chemistry

CHM 1401H	Transport and Fate of Chemical Species in the Environment
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 1590Y ⁰	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 and Catalysis
CHM 1205H	Inorganic Reaction Mechanisms
CHM 1206H	Solid State Chemistry: Structure-Property Relations
CHM 1255H	Supramolecular Chemistry
CHM 1258H	Reactions of Coordinated Ligands
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 ⁰	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 1056H	Techniques for Studying the Chemical, Structural, and Dynamic Properties of Biomolecules
CHM 1057H	Topics in Synthetic Organic Chemistry
CHM 1059H	Chemical Biology in Complex Systems

CHM 1060H	Advanced Topics in Synthetic Organic Chemistry
CHM 1068H	Topics in Biological and Medicinal Chemistry
CHM 1090Y ⁰	Organic Chemistry Seminar (Credit/No Credit)
CHM 2044H	Research in Organic Chemistry

CHM 1310H	Polymer Chemistry
CHM 1390Y ⁰	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.

⁰ Course that may continue over a program. Credit is given when the course is completed.

Physical and Theoretical Chemistry

CHM 1441H	Mathematical Methods
CHM 1443H	Intermediate Quantum Mechanics
CHM 1444H	Statistical Mechanics of Condensed Phases
CHM 1445H	Coherent Control of Molecular Processes
CHM 1446H	Quantum Computation and Information Theory
CHM 1447H	Biophysical Chemistry
CHM 1448H	Modelling of Biochemical Systems
CHM 1450H	Nanoscale Characterization with Scan Probe Microscopy
CHM 1455H	NMR Spectroscopy I: Basic Theory and Applications for Biological Chemists
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 1480H	Basic Statistical Mechanics (core course)
CHM 1481H	Reaction Kinetics and Dynamics
CHM 1482H	Laser Spectroscopy and Photophysics
CHM 1490Y ⁰	Physical Chemistry Seminar (Credit/No Credit)
CHM 2024H	Research in Physical Chemistry

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

Cinema Studies

Cinema Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Cinema Studies

MA and PhD

Collaborative Specializations

The following collaborative specializations 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 (CSI) comprises 13 full-time faculty, whose competencies and research emphases contribute to a curriculum that encompasses film and media history, theory, analysis, and cultural practices. Specializations include: early cinema, technology, sound studies, architecture and space, animal studies, film philosophy, media archaeology, aboriginal cinemas, national cinemas, animation, critical race theory, postcolonial and subaltern studies, gender, migration and diaspora, documentary, digital and expanded cinemas, avant-garde, and experimental film.

The facilities, both at Innis College and in the Media Commons at Robarts Library, are equipped with the latest technologies; include a lending library dedicated to film scholarship archival and restoration facilities; several seminar rooms; mid-sized classrooms; and a lecture and screening facility, the Innis Town Hall, seating 150 visitors and boasting 35 mm, 16 mm, and digibeta capabilities. Students benefit from both the peerless campus resources as well as those institutions associated with Toronto's wider film and media culture, including the Film Reference Library, TIFF, Bell Lightbox, a multitude of film festivals, and a highly differentiated media production and distribution landscape.

Past graduates of CSI now teach at universities across the continent and are also employed at film and media-related institutions ranging from the Toronto International Film Festival Group to the Pacific Film Archive, serving as respected executives, creators, and curators. The institute is committed to providing students with a rigorous, engaging, and memorable education. Equally important, the institute aims to introduce

graduates to a close-knit academic community that shares a common goal: exploring the depth and breadth of film and media scholarship in an environment that stimulates thought and fosters collegiality.

Contact and Address

Web: www.cinema.utoronto.ca
 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

Cinema Studies: Graduate Faculty

Full Members

Ackerman, Alan - BA, MA, PhD
 Baumann, Shyon - BA, MA, PhD
 Boler, Megan - BA, PhD
 Brown, Elspeth - MA, PhD
 Budde, Antje - PhD
 Cahill, James - AB, MA, MA, PhD (**Director**)
 Cazdyn, Eric - BA, MA, PhD
 Columpar, Corinn - BA, PhD
 Fenner, Angelica - BA, MA, PhD
 Jagoe, Eva-Lynn - BA, MA, PhD
 Jain, Kajri - PhD
 Johnson, Stephen - BA, MA, PhD
 Kaplan, Louis - AB, AM, DPhil
 Keil, Charlie - BA, MA, PhD
 Legge, Elizabeth MM - BA, BA, MA, PhD
 Leonard, Garry - BA, MA, PhD
 Maurice, Alice - BA, DPhil
 Meng, Yue - BA, MA, MA, PhD
 Most, Andrea - BA, MA, PhD
 Price, Brian - PhD (**Graduate Coordinator**)
 Ricco, John - BA, MA, PhD
 Richmond, Scott - BA, PhD
 Sammond, Nicholas - BA, MA, PhD
 Sutherland, Meghan - PhD
 Tcheuyap, Alexie - BA, MA, PhD
 Walcott, Rinaldo - BA, MA, PhD

Members Emeriti

Armatage, Kay - BA, MA, PhD

Associate Members

Banning, Kass - MFA, MFA
 Cramer, Lauren - AB, MA, DFA
 Saljoughi, Sara - BA, MA, PhD
 Testa, Bart - BA, MA
 Wijaya, Elizabeth - BA, MA, MA, PhD

Cinema Studies: Cinema Studies MA

Master of Arts

Program Description

The course-based, one-year MA program offers students the option, during their third term, of pursuing either a professional internship or a major research paper of roughly 40. 50 pages written under the supervision of a faculty advisor elected by the student. Students have the option to concurrently enrol in one of the collaborative specializations at U of T, such as Sexual Diversity Studies, Women and Gender Studies, or Transnational and Diaspora Studies, which entails also registering for their specific core courses. The MA in Cinema Studies is a full-time program.

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-level 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.
- 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 full-course equivalents (FCEs)** over the course of an academic year, normally extending from September until August, as follows:
 - 1.0 FCE mandatory core courses: CIN 1101H and CIN 1102H.
 - 1.0 FCE devoted to either the writing of a major research paper (CIN 1006Y) or pursuing an internship (CIN 1007Y).
 - 2.0 FCEs may be completed in the following way:
 - from elective CIN courses 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.
 - from film-related courses offered by other units (non-CIN designator) but approved as relevant to the Cinema Studies master's program curriculum.

Program Length

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

Time Limit

3 years full-time

Cinema Studies: Cinema Studies PhD

Doctor of Philosophy

Program Description

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 earlier historical junctures. Throughout the program of study, the synthesis of history and theory, textual analysis, and cultural study is emphasized.

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 ambitions, including possible thesis topic, the applicant aims 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).
- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - 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 *Research Seminar in Cinema Studies*), a credit/non-credit course.
- All coursework is normally completed by December of Year 2 of study, except for CIN 2999H which may extend beyond that date.
- Completion of **one Qualifying Examination**. Students generally undertake the Qualifying Examination after the completion of coursework in Year 2 of study.
 - The Qualifying Examination covers two special fields and has two components: a written examination and an oral examination. These exams are scheduled by the

student's supervisor and committee 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**.

CIN 1772H	The Politics of Non-Fiction Film
CIN 3002H	Cinema and Nation
CIN 3004H	Documentary and Non-fiction Media
CIN 3006H	Media and Philosophy
CIN 3008H	Topics in Film and Media History
CIN 3010H	Topics in Film and Media Theory
CIN 6153H	Race and Cinema
CIN 6803H	Intertextuality in Feminist Cinema: The Counter-Cinematic Impulse
JFF 1100H	Surrealism and French Cinema
JFF 1101H	The Art of Exploration: How to Think the World

Program Length

4 years full-time

Time Limit

6 years full-time

Cinema Studies: Cinema Studies MA, PhD Courses

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 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)

Elective Courses (Subject to Change)

CIN 1005H	Special Studies in Cinema
CIN 1008H	Independent Research and Reading in Cinema Studies
CIN 1100H	The Textual Object

Civil and Mineral Engineering

Civil and Mineral Engineering: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Civil Engineering

MASc

- Emphasis:
 - Sustainable Energy

MEng

- Emphases:
 - Advanced Water Technologies;
 - Analytics;
 - Building Science;
 - Concrete;
 - Construction Management;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Environmental Engineering;
 - Forensic Engineering;
 - Geomechanics;
 - Structural Engineering;
 - Sustainable Energy;
 - Sustainable Urban Systems;
 - Transportation Engineering and Planning

PhD

- Emphasis:
 - Sustainable Energy

Cities Engineering and Management

MEngCEM

Combined Degree Programs

[UTSC, Environmental Biology \(Specialist\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Biology \(Specialist Co-op\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Chemistry \(Specialist\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Chemistry \(Specialist Co-op\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Geoscience \(Specialist\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Geoscience \(Specialist Co-op\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Physics \(Specialist\), Honours BSc / Civil Engineering, MEng](#)

[UTSC, Environmental Physics \(Specialist Co-op\), Honours BSc / Civil Engineering, MEng](#)

Collaborative Specializations

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

- [Engineering Education](#)
 - Civil Engineering, MASc, PhD
- [Environmental Studies](#)
 - Civil Engineering, MASc, MEng, MEngCEM, PhD
- [Psychology and Engineering](#)
 - Civil Engineering, MASc, PhD

Overview

The research conducted in the Department of Civil and Mineral Engineering is addressing the need for innovative solutions to society's needs, from the deep underground to the world's tallest structures. The dedicated students, staff, and professors are pursuing exciting research ranging from nanoscale investigations into water contamination and concrete properties, to the large-scale tests of structures under full-scale simulated earthquakes, to development of real-time mass transit models to solve urban congestion. Research is informed by extensive collaboration and interaction with industry and government partners. Facilities and breadth of research expertise are among the best in the world, offering great opportunities for involvement in ground-breaking research.

The Department of Civil and Mineral Engineering is organized into five interdisciplinary research themes: Cities & Infrastructure; Complex Systems; Energy & Environment; Mining & Subsurface Systems; and Transformative Technologies. These themes encompass the traditional civil engineering areas of Structural Engineering; Transportation Engineering; Environmental Engineering; Building Engineering and Construction Management; and Mining and Geomechanics.

Contact and Address

Admission Inquiries

Web: civmin.utoronto.ca

Email: graduateadmissions@civ.utoronto.ca

Telephone: (416) 978-3099

Fax: (416) 978-6813

Student Services Inquiries

Colleen Kelly

Email: civ.gradprograms@utoronto.ca

Telephone: (416) 978-5904

Department of Civil and Mineral Engineering
University of Toronto
Galbraith Building 35 St. George Street, Room 116
Toronto, Ontario M5S 1A4
Canada

Civil and Mineral Engineering: Graduate Faculty

Full Members

Abdulhai, Baher - BEng, MEng, PhD, PEng
 Andrews, Robert - BASc, MAsC, PhD, PEng
 Andrews, Susan - BSc, MSc, PhD
 Azhari, Faezeh - BEng, PhD
 Bentz, Evan - BASc, PhD, PEng
 Christopoulos, Constantin - BE, MAsC, PhD, PEng
 Collins, Michael - BE, PhD, PEng
 Drake, Jennifer Anne Pauline - BEng, MAsC, PhD, PEng
 El-Diraby, Tamer - BSc, MSc, PhD, PEng
 Esmaeili, Kamran - BSc, MSc, PhD
 Gauvreau, Paul - BSc, MSc, PhD, PEng
 Ghafghazi, Mason - BSc, MSc, PhD
 Goodfellow, Sebastian - MAsC, PhD
 Grabinsky, Murray - BASc, MAsC, PhD, PEng
 Grasselli, Giovanni - PhD, PEng
 Hadjigeorgiou, John - DiplGeol, BASc, ME, DPhil, PEng
 Harrison, John Paul - BSc, MSc, PhD, W M Keck Chair of Seismology and Rock Mechanics
 Hatzopoulou, Marianne - BSc, BSc, MSc, MSc, PhD, PhD, CRC
 Hofmann, Ronald - BEng, MAsC, PhD, PEng
 Hooton, R. Douglas - BASc, MAsC, PhD, PEng
 Karney, Bryan - BSc, MEng, PhD, Erwin Edward Hart Professor, PEng
 Kennedy, Christopher - BEng, MEd, MBA, MAsC, PhD, PEng
 Kwon, Oh-Sung - BS, MS, MS, PhD, PEng
 MacLean, Heather L - BASc, MAsC, MBA, PhD, PEng
 McCabe, Brenda - BSc, PhD, PEng
 Mercan, Oya - BS, MS, PhD
 Miller, Eric - BASc, MAsC, PhD
 Nurul Habib, Khandker - MS, PhD, PEng
 Packer, Jeffrey - BE, MSc, DSc, PhD, PEng
 Panesar, Daman - BE, ME, PhD, PEng
 Peterson, Karl - BS, MS, PhD, PEng
 Posen, I. Daniel - BA, MSc, MRes, PhD
 Pressnail, Kim - BASc, PhD, PEng
 Roorda, Matthew - BEng, MAsC, PhD, PEng
 Saxe, Shoshanna - MSc, PhD
 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**)
 Taylor, David - PhD, PhD, PhD
 Vanderburg, Willem - BASc, MAsC, PhD, PEng
 Vecchio, Frank - BASc, MEng, PhD, PEng
 Warren, Lesley Alice - BSc, PhD
 Windisch, Marianne - BASc, PhD
 Xia, Kaiwen - BASc, MS, PhD, PEng
 Young, Paul - BSc, MSc, PhD, CEng

Members Emeriti

Birkemoe, Peter - BS, MSc, PhD
 Ganczarczyk, Jerzy - MSc, DSc, DrHab
 Hauer, Ezra - BSc, MSc, PhD
 Hurdle, Vanolin - BS, MEng, PhD
 Mohanty, Bibhu - 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

Bergerson, Joule A. - BSc, MEng, MS, PhD
 Gruber, Stephan - DrRerNat
 Guo, Yiping - BSc, MAsC, MSc, PhD
 Magnan, Robert - BEng, MAsC
 Metcalfe, Murray - MS, PhD
 Pantazopoulou, Stavroula - BEng, MSc, PhD, PhD
 Papa, Fabian - BASc, MAsC, MBA
 Rezazadeh Azar, Ehsan - PhD
 Seica, Michael - DiplIng, PhD

Civil and Mineral Engineering: Civil Engineering MAsC

Master of Applied Science

Program Description

The MAsC program includes a foundational base of graduate courses followed by a research thesis. Many research projects involve industrial partnerships and networking opportunities, project management experience, and collaboration with leading experts.

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of a mid B (3.0 out of 4.0, or 75%). Required grades must be achieved in each of the final two years of undergraduate study. Competitive admission averages are typically near or above 80% (A.).
- 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. See [General Regulations section 4.3](#) for requirements.
- 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.
- **Coursework.** Normally, students must complete a minimum of **2.5 full-course equivalents (FCEs)** (five half courses).
- **Research thesis.**

- Students must participate in the non-credit seminar course JDE 1000H *Ethics in Research* during their first or second session of registration.
- In addition to the core research area, students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Civil Engineering MSc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years full-time

Civil and Mineral Engineering: Civil Engineering MEng

Master of Engineering

Program Description

The MEng program is course based and intended to provide continuing and advanced education for recent graduates and civil engineers in professional practice. The program can be taken on a full-time, extended full-time, or part-time basis.

Full-Time Option

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of a mid-B (3.0 out of 4.0 or 75%). Required grades must be achieved in each of the final two years of undergraduate study.
- 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. See [General Regulations section 4.3](#) for requirements.
- 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.
- **Coursework.** Normally, students must complete **5.0 full-course equivalents (FCEs)** (10 half courses). Up to two

half courses (1.0 FCE) may be replaced by a research/design project.

- Students have the option of completing an emphasis in Advanced Water Technologies; Analytics; Building Science; Concrete; Construction Management; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Environmental Engineering; Forensic Engineering; Geomechanics; Structural Engineering; Sustainable Energy; Sustainable Urban Systems; or Transportation Engineering and Planning as part of their degree program. Please see details in the Civil Engineering MSc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of a mid-B (3.0 out of 4.0 or 75%). Required grades must be achieved in each of the final two years of undergraduate study.
- 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. See [General Regulations section 4.3](#) for requirements.
- 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.
- **Coursework.** Normally, students must complete **5.0 full-course equivalents (FCEs)** (10 half courses). Up to two half courses (1.0 FCE) may be replaced by a research/design project.
- 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.
- Students have the option of completing an emphasis in Advanced Water Technologies; Analytics; Building Science; Concrete; Construction Management; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Environmental Engineering; Forensic Engineering; Geomechanics; Structural Engineering; Sustainable Energy; Sustainable

Urban Systems; or Transportation Engineering and Planning as part of their degree program. Please see details in the Civil Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Part-Time Option

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of a mid-B (3.0 out of 4.0 or 75%). Required grades must be achieved in each of the final two years of undergraduate study.
- 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. See [General Regulations section 4.3](#) for requirements.
- 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.
- **Coursework.** Normally, students must complete **5.0 full-course equivalents (FCEs)** (10 half courses). Up to two half courses (1.0 FCE) may be replaced by a research/design project.
- Students are limited to four half courses per year and two half courses per session. Students normally complete the requirements in nine sessions.
- Students have the option of completing an emphasis in Advanced Water Technologies; Analytics; Building Science; Concrete; Construction Management; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Environmental Engineering; Forensic Engineering; Geomechanics; Structural Engineering; Sustainable Energy; Sustainable Urban Systems; or Transportation Engineering and Planning as part of their degree program. Please see details in the Civil Engineering MASc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

Civil and Mineral Engineering: Civil Engineering PhD

Doctor of Philosophy

Program Description

The PhD program is designed for outstanding individuals interested in a rewarding career in fundamental or applied research. This program involves advanced courses and an intensive research program culminating in a thesis.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MASc degree in engineering, mathematics, physics, or chemistry; 2) transfer from the University of Toronto MASc program; 3) direct entry following completion of a bachelor's degree.

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of B+ (3.3 out of 4.0 or 78%). Required grades must be achieved in each of the final two years of undergraduate study. Competitive admission averages are typically near or above 80% (A.).
- 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. See [General Regulations section 4.3](#) for requirements.
- Applicants must satisfy the department of the ability to undertake advanced research.
- Admission directly from a bachelor's degree is permitted in exceptional cases.
- 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

- **Students with an MASc degree** (or equivalent in the same area of study) must complete a minimum of **2.0 full-course equivalents (FCEs)** (four half courses).
- **Students with an MEng degree** must complete a minimum of **4.5 FCEs** (nine half courses). Up to 3.0 FCEs (six graduate half courses) may be used from the MEng program towards the PhD course requirements.

- Students enrolled in the MASc degree program who **transfer** to the PhD program must complete a total of **4.5 full-course equivalents (FCEs)** (nine half courses).
 - For **direct-entry** students, 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 area of research.
 - **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 Graduate Studies Committee.
 - **Residence.** 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 Graduate Studies Committee during the student's first session.
 - Students must participate in the non-credit seminar course JDE 1000H *Ethics in Research* during their first or second session of registration.
 - Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Civil Engineering MASc, MEng, PhD Emphases section.
- CIV 1319H *Chemistry and Analysis of Water and Wastes*
 - CIV 1399H *Special Studies in Civil Engineering* (e.g., Water Sanitation and Hygiene; Treatment Wetlands; the topic is subject to obtaining approval from the student's graduate unit)
 - CIV 1499H *Special Studies in Civil Engineering* (e.g., Fundamentals of Acid Mine Drainage; the topic is subject to obtaining approval from the student's graduate unit).
- Two specialized courses selected from the following (1.0 FCE):
 - CHE 1213H *Corrosion*
 - CHE 1430H *Hydrometallurgy Theory and Practice*
 - JCC 1313H *Environmental Microbiology*
 - JNC 2503H *Environmental Pathways*
 - MIE 1807H *Principles of Measurements*
 - STA 1004H *Introduction to Experimental Design*.

Enrolment Contact

Enrolment in the emphasis is permitted at any time during the MEng program. After students are admitted to the normal MEng program, students may contact [Prof. Ron Hofmann](#), (416) 946-7508.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, students will receive a transcript notation from the Faculty Graduate Studies office (subject to Prof. Hofmann's recommendation).

Emphasis: Analytics (MEng only)

To be admitted to the emphasis in Analytics, MEng students must first successfully complete a **prerequisite course APS 1070H (0.5 full-course equivalent [FCE])**.

Subsequently, to earn the emphasis, students must successfully complete **four additional half courses (2.0 FCEs)** from the list of core courses or elective courses. These must include at least one core course; the remaining courses must be selected from the list of elective courses.

Students must have completed the prerequisite course APS 1070H before taking any of the core courses.

Prerequisite Course

APS 1070H *Foundations of Data Analytics and Machine Learning*

Core Courses

CHE 1147H *Data Mining in Engineering*
 ECE 1513H *Introduction to Machine Learning* (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1504H)
 MIE 1624H *Introduction to Data Science and Analytics*
 MSE 1065H *Application of Artificial Intelligence in Materials Design* (exclusion: MSE 1063H)

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

Civil and Mineral Engineering: Civil Engineering MASc, MEng, PhD Emphases

Emphasis: Advanced Water Technologies (MEng only)

MEng students must successfully complete **two core courses (1.0 full-course equivalent [FCE])** and **two specialized courses (1.0 FCE)**.

- Two core courses (1.0 FCE):
 - CHE 1150H *Industrial Water Technology*
 - at least one of the following (any of the other three can count as a specialized course):
 - CHE 565H *Aqueous Process Engineering*
 - CIV 541H *Environmental Biotechnology*
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*
 - CIV 1303H *Water Resources Systems Modeling*
 - CIV 1308H *Physical and Chemical Treatment Processes*
 - CIV 1311H *Advanced and Sustainable Drinking Water Treatment*

Elective Courses

APS 502H, APS 1005H, APS 1017H, APS 1022H, APS 1040H, APS 1050H, APS 1051H, APS 1052H, APS 1053H, CHE 507H, CHE 1108H, CHE 1148H, CHE 1434H, CIV 1504H, CIV 1506H, CIV 1507H, CIV 1532H, CIV 1538H, ECE 537H, ECE 1504H (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1513H), ECE 1505H, ECE 1657H, ECE 1778H, ECE 1779H, MIE 562H, MIE 1413H, MIE 1501H, MIE 1512H, MIE 1513H, MIE 1620H, MIE 1621H, MIE 1622H, MIE 1623H, MIE 1628H, MIE 1653H, MIE 1721H, MIE 1723H, MIE 1727H, MSE 1063H (exclusion: MSE 1065H).

Emphasis: Building Science (MEng only)

MEng students must successfully complete at least **six half courses (3.0 full-course equivalents [FCEs])** with a combination of core and elective courses as detailed below. One or two of the optional courses may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Building Science emphasis coordinator.

Core Courses (take at least four):

CIV 575H, CIV 576H, CIV 578H, CIV 1282H, CIV 1320H, MIE 507H.

Elective Courses (others can be approved by the emphasis coordinator):

CIV 514H, CIV 536H, CIV 577H, CIV 1279H, CIV 1299H, MIE 515H, MIE 1240H.

Emphasis: Concrete (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Concrete emphasis coordinator.

CIV 514H, CIV 517H, CIV 1201H, CIV 1250H, CIV 1252H, CIV 1260H, CIV 1262H, CIV 1275H, CIV 1504H.

Emphasis: Construction Management (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Construction Management emphasis coordinator.

APS 1001H, APS 1004H, APS 1005H, APS 1017H, CIV 1279H, CIV 1281H, CIV 1299H, CIV 1307H, CIV 1504H, MIE 562H, MIE 1413H.

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully **complete four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) chosen from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course).

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Environmental Engineering (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Environmental Engineering emphasis coordinator.

CHE 1134H, CHE 1150H, CHE 1180H, CHE 1431H, CHE 1432H,
CHL 5903H,
CIV 541H, CIV 549H, CIV 550H, CIV 577H, CIV 1303H, CIV 1307H, CIV 1308H, CIV 1311H, CIV 1319H, CIV 1320H, CIV 1399H,
ENV 1001H, ENV 1701H,
JCC 1313H,
JNC 2503H,
MIE 1240H.

Emphasis: Forensic Engineering (MEng only)

MEng students must successfully complete **four courses (one core course and three elective courses)** from the list below.

Core Course

MSE 1031H

Elective Courses

APS 540H, APS 1034H, APS 1039H, APS 1040H,
BME 1800H, BME 1801H, BME 1480H,
CHE 561H, CHE 568H, CHE 1213H, CHE 1431H, CHE 1432H, CHE 1434H,
CIV 510H, CIV 518H, CIV 1163H, CIV 1171H, CIV 1174H, CIV 1190H, CIV 1201H, CIV 1279H, CIV 1282H, CIV 1422H, CIV 1429H,
JMB 1050H,
JNC 2503H,
MSE 1015H, MSE 1022H, MSE 1032H,
MIE 566H, MIE 1224H, MIE 1301H, MIE 1303H, MIE 1411H,
MIE 1414H, MIE 1616H, MIE 1713H, MIE 1714H, MIE 1721H,
MIE 1723H, MIE 1727H, MIE 1804H.

Emphasis: Geomechanics (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Geomechanics emphasis coordinator.

CIV 523H, CIV 1404H, CIV 1419H, CIV 1420H, CIV 1429H,
CIV 1498H, CIV 1499H,
MIN 540H, MIN 565H.

Emphasis: Structural Engineering (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Structural Engineering emphasis coordinator.

CIV 510H, CIV 514H, CIV 515H, CIV 517H, CIV 518H, CIV 519H, CIV 1163H, CIV 1164H, CIV 1167H, CIV 1169H, CIV 1171H, CIV 1174H, CIV 1175H, CIV 1180H, CIV 1361H.

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A **thesis** towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- **Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H,
CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H,
ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE 1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H,
MIE 1240H, MIE 1715H,
MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

Emphasis: Sustainable Urban Systems (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below).

Other courses may be considered but will require approval of the Sustainable Urban Systems emphasis coordinator.

APS 510H, APS 1024H, APS 1025H
 CIV 514H, CIV 516H, CIV 531H, CIV 575H, CIV 576H, CIV 577H, CIV 1201H, CIV 1252H, CIV 1280H, CIV 1303H, CIV 1307H, CIV 1535H,
 ECE 1092H,
 ENV 1001H,
 MIE 515H, MIE 1120H, MIE 1240H, MIE 1715H.

Emphasis: Transportation Engineering and Planning (MEng only)

MEng students must successfully complete **six of the following technical courses (3.0 full-course equivalents [FCEs])**, one or two of which may be a one-session (CIV 1001H) or two-session (CIV 1002Y) project (not listed below). Other courses may be considered but will require approval of the Transportation Engineering and Planning emphasis coordinator.

CIV 516H, CIV 531H, CIV 536H, CIV 1307H, CIV 1506H, CIV 1508H, CIV 1520H, CIV 1532H, CIV 1535H, CIV 1536H, CIV 1538H.

Civil and Mineral Engineering: Civil Engineering MSc, MEng, PhD Courses

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

General Interest

APS 1012H	Managing Business Innovation and Transformational Change
APS 1070H	Foundations of Data Analytics and Machine Learning
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 536H	Urban Activity, Air Pollution, and Health
CIV 575H	Building Science
CIV 576H	Sustainable Buildings
CIV 577H	Infrastructure for Sustainable Cities
CIV 578H	Design of Building Enclosures
CIV 580H	Engineering and Management of Large Projects
CIV 1201H	Concrete Technology and Non-Destructive Testing Principles
CIV 1240H	Building Performance Assessment (prerequisite: CIV375, CIV575, or instructor approval)

CIV 1250H	Instrumentation Techniques in Concrete Technology
CIV 1252H	Repair and Maintenance of Concrete Structures
CIV 1260H	Chemistry of Cements and Concrete (prerequisite: CIV 514H)
CIV 1262H	Microscopy Applied to Concrete and Geomaterials
CIV 1275H	Construction Modeling Methods
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 1298H	Special Studies in Civil Engineering
CIV 1299H	Special Studies in Civil Engineering

Environmental Engineering

CIV 541H	Environmental Biotechnology
CIV 549H	Groundwater Flow and Contamination
CIV 550H	Water Resources Engineering
CIV 1302H	Low Impact Development and Stormwater Systems
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 1399H	Special Studies in Civil Engineering

Geomechanics

CIV 521H	Rock Mechanics
CIV 523H	Geotechnical Design
CIV 1404H	Material Fracture Dynamics: Experimental Methods
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 1499H	Special Studies in Civil Engineering
CME 500H	Fundamentals of Acid Rock Drainage
MIN 511H	Integrated Mine Waste Engineering
MIN 540H	Borehole Geophysics for Engineers and Geoscientists
MIN 565H	Design and Support of Underground Mine Excavations

Structural Engineering

CIV 510H	Solid Mechanics II
CIV 514H	Concrete Technology

CIV 515H	Introduction to Structural Dynamics
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 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 516H	Public Transit Operations and Planning
CIV 531H	Transport III. Planning
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 1536H	Modelling Transport Emissions
CIV 1538H	Transportation Demand Analysis
CIV 1599H	Special Studies in Civil Engineering

Civil and Mineral Engineering: Cities Engineering and Management MEngCEM

Master of Engineering in Cities Engineering and Management

Program Description

Cities are the economic engines of the world. Highly skilled professionals, armed with both technical expertise and a fundamental understanding of the cross-disciplinary issues, are needed to help our cities tackle challenges to ensure the well-being of their inhabitants and economies. In the Master of Engineering: Cities Engineering and Management (MEngCEM) program, students prepare for rewarding careers in government and the private sector, addressing the critical issues and growing needs of urban centres.

To proactively respond to the changing needs of cities, the MEngCEM program offers students a practicum to apply what they have learned in the classroom.

The MEngCEM program can be completed through full-time studies over three continuous sessions or through an extended full-time (EFT) option over six sessions.

Full-Time Option

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of mid-B (3.0 out of 4.0 or 75%). Competitive admission averages are typically near or above 80% (A–).
- 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. See [General Regulations section 4.3](#) for requirements.
- Applicants with backgrounds in an applied science other than engineering may be admitted.
- Applicants must have one year of work experience before admission to the program.

Program Requirements

- Students must successfully complete a total of **5.0 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs (eight half courses) consisting of
 - four core courses:
 - ◇ CEM 1001H *The Challenges of Urban Policy-Making*
 - ◇ CEM 1002H *Data Analytics and Cities*
 - ◇ CEM 1003H *Infrastructure and Urban Prosperity*
 - ◇ CEM 1004H *Cities as Complex Systems*
 - three infrastructure engineering electives in one of eight specialization areas (see course listing below)
 - one technology management elective (see course listing below).
 - 1.0 FCE Practicum typically completed during the Summer of Year 1.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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.
- A completed undergraduate degree equivalent to a four-year University of Toronto program with a minimum final-year grade point average (GPA) of mid-B (3.0 out of 4.0 or

75%). Competitive admission averages are typically near or above 80% (A.).

- 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. See [General Regulations section 4.3](#) for requirements.
- Applicants with backgrounds in an applied science other than engineering may be admitted.
- Applicants must have one year of work experience before admission to the program.

Program Requirements

- Students must successfully complete a total of **5.0 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs (eight half courses) consisting of
 - four core courses:
 - ◇ CEM 1001H *The Challenges of Urban Policy-Making*
 - ◇ CEM 1002H *Data Analytics and Cities*
 - ◇ CEM 1003H *Infrastructure and Urban Prosperity*
 - ◇ CEM 1004H *Cities as Complex Systems*
 - three infrastructure engineering electives in one of eight specialization areas (see course listing below)
 - one technology management elective (see course listing below).
 - 1.0 FCE Practicum typically completed during the Summer of Year 2.

Program Length

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

Time Limit

3 years

Civil and Mineral Engineering: Cities Engineering and Management MEngCEM Courses

Courses must be approved by the Program Director.

Core Courses

CEM 1001H	The Challenges of Urban Policy-Making
CEM 1002H	Empirical Study of Cities
CEM 1003H	Infrastructure and Urban Prosperity
CEM 1004H	Cities as Complex Systems
CEM 1000Y	Cities Engineering and Management Practicum

Infrastructure Engineering Course Electives

Students must choose three courses in one of the following specialization areas: Cyber Security, Communications Networks, Environmental Issues for Healthy Cities, Operations Research, Resilience of Critical Infrastructure, Sustainable Energy Systems, Transportation, Urban Structures.

The course selection (subject to change) in each infrastructure engineering specialization area is:

Cybersecurity

ECE 568H	Computer Security Planning
ECE 1508H	Special Topics in Communications
ECE 1518H	Seminar in Identity, Privacy, and Security
ECE 1776H	Computer Security, Cryptography, and Privacy

Communications Networks

ECE 1508H	Special Topics in Communications
ECE 1520H	Data Communications I
ECE 1524H	Service Provider Networks
ECE 1541H	Communication Networks I
ECE 1545H	Bridges and Routers Planning
ECE 1548H	Advanced Network Architectures

Environmental Issues for Health Cities

CHE 1433H	Air Dispersion Modelling
CIV 549H	Groundwater Flow and Contamination
CIV 1303H	Water Resources Systems Modelling
CIV 1308H	Physical and Chemical Treatment Processes
CIV 1309H	Biological Treatment Processes
CIV 1311H	Advanced and Sustainable Drinking Water Treatment

Operations Research

MIE 1603H	Integer Programming
MIE 1616H	Research Topics in Healthcare Engineering
MIE 1620H	Linear Programming and Network Flows
MIE 1621H	Non-Linear Optimization
MIE 1721H	Reliability
MIE 1723H	Engineering Asset Management
MIE 1727H	Quality Assurance I

Resilience of Critical Infrastructure

APS 1024H	Infrastructure Resilience Planning
APS 1025H	Infrastructure Protection
APS 1031H	Infrastructure Planning
URD 1044H	Urban Design and Development
URD 2041H	Business and Land Use Planning in Real Estate Development

Sustainable Energy Systems

APS 510H	Innovative Technologies and Organizations in Global Energy Systems
ECE 1092H	Smart Grid Case Studies
MIE 515H	Alternative Energy Systems
MIE 1120H	Current Energy Infrastructure and Resources
MIE 1240H	Wind Power
MIE 1715H	Life Cycle Engineering

APS 1088H	Business Planning and Execution for Canadian Entrepreneurs
APS 1202H	Engineering and Sustainable Development
CHE 1435H	Fundamentals of Aerosol Physics and Chemistry
CIV 1307H	Life Cycle Assessment and Sustainability of Engineering Activities
TEP 1010H	Cognitive and Psychological Foundations of Effective Leadership

Transportation

CIV 516H	Public Transit Operations and Planning
CIV 531H	Transport III . Planning
CIV 1506H	Freight Transportation and ITS Applications
CIV 1508H	Airport Planning and Engineering
CIV 1532H	Fundamentals of ITS and Traffic Management
CIV 1535H	Transportation and Development
CIV 1538H	Transportation Demand Analysis
CIV 1598H	Special Studies in Civil Engineering — Transportation: Urban Operations Research

Urban Structures

APS 1024H	Infrastructure Resilience Planning
APS 1025H	Infrastructure Protection
CIV 576H	Sustainable Buildings
CIV 1164H	Bridge Engineering
CIV 1167H	Advanced Structural Dynamics
CIV 1169H	Advanced Topics in Building Design
CIV 1252H	Repair and Maintenance of Concrete Structures

Technology Management Course Electives

The course list is subject to change.

APS 1001H	Project Management
APS 1005H	Operations Research for Engineering Management
APS 1009H	Natural Resources Management
APS 1012H	Managing Business Innovation and Transformational Change
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 1036H	Formative Experiential Entrepreneurial Learning (FEEL)
APS 1037H	Infrastructure Engineering in Remote First Nation Communities in Ontario
APS 1038H	Strategic Sustainability Management for Businesses and Products
APS 1039H	Enterprise Risk Management
APS 1040H	Quality Control for Engineering Management

Classics

Classics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Classics

MA and PhD

- Fields:
 - Greek and Roman History and Material Culture;
 - Greek and Roman Literature;
 - Ancient Philosophy

Collaborative Specializations

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

- [Ancient and Medieval Philosophy](#)
 - Classics, PhD
- [Book History and Print Culture](#)
 - Classics, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Classics, PhD
- [Jewish Studies](#)
 - Classics, MA, PhD
- [Mediterranean Archaeology](#)
 - Classics, PhD
- [Sexual Diversity Studies](#)
 - Classics, MA, PhD
- [Women and Gender Studies](#)
 - Classics, MA, PhD

Overview

The Department of Classics provides advanced training in the fields of Greek and Roman History and Material Culture, Greek and Roman Literature, and Ancient Philosophy. Collaborative specializations, listed above, are available to students enrolled in the specified participating degree programs.

Information about admission, application procedures, and funding is available from the department.

Contact and Address

Web: classics.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

Classics: Graduate Faculty

Full Members

Akrigg, Ben - BA, PhD
 Barney, Rachel - BA, PhD
 Bendlin, Andreas - PhD
 Blouin, Katherine - BA, MA, PhD, PhD
 Boys-Stones, George - MA, DPhil
 Bruun, Christer - BA, MA, PhD
 Burgess, Jonathan - BA, MA, PhD
 Chrubasik, Boris - MA, PhD
 Dewar, Michael - BA, MA, DPhil
 Gunderson, Erik - BA, MA, PhD
 Hoeschele, Regina - MA, PhD
 Keith, Alison - BA, MA, PhD, FRSC
 Lytle, Ephraim - BA, PhD
 Magee, John - BA, MA, PhD
 Revermann, Martin - PhD
 Welsh, Jarrett - BA, MA, PhD
 Wilkinson, Kevin - MA, PhD
 Wohl, Victoria - BA, MA, PhD (*Chair and Graduate Chair*)

Members Emeriti

Barnes, Timothy - BA, MA, DPhil, FRSC
 Beck, Roger - BA, MA, PhD
 Grant, John - BA, MA, PhD
 Irwin, Marjorie - BA, PhD, PhD
 McDonough, Christopher - BA, MA, PhD
 Rist, John - MA
 Townsend, David Robert - BA, MA, PhD
 Traill, John - BA, MA, PhD

Associate Members

Allen, James - BA, PhD
 Balot, Ryan - BA, AM, PhD
 Bing, Peter - PhD
 Edmondson, Jonathan - PhD
 Everett, Nicholas - BA, MA, PhD
 Ewald, Bjoern - AM, PhD
 Kloppenborg, John - BA, MA, PhD
 Knappett, Carl - MA, PhD
 Marshall, John - BA, MA, PhD
 Murray, Sarah - PhD
 Orwin, Clifford - AB, AM, PhD
 Ross, Jill - BA, MA, PhD
 Weinrib, Ernest - BA, LLB, PhD
 Yu, Kenneth - PhD

Classics: Classics MA

Master of Arts

Program Description

Applicants may be admitted to either the two-year MA program or the one-year advanced-standing option, depending on their level of preparation. At the time of application, students are encouraged to indicate their preference for one of the three fields offered: Greek and Roman History and Material Culture, Greek and Roman Literature, and Ancient Philosophy. The MA program may be taken on a part-time basis.

MA Program (Two-Year)

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. For applicants who expect to focus on the areas of Greek and Roman Literature or Ancient Philosophy, the equivalent of three years of training in either Greek or Latin and two years of training in the other language is recommended. For applicants who expect to focus on the area of Greek and Roman History and Material Culture, the equivalent of three years of training in either Greek or Latin and demonstrated excellence in the study of Greek and Roman history and material culture is recommended.
- Students who are otherwise qualified but who lack the required amount of training in Greek and Latin or in Greek and Roman history and material culture should consult with the department about further preparation.

Program Requirements

- **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)** required by the field they have chosen in consultation with the Graduate Coordinator.
 - Completion of one (0.5 FCE) of GRK 1000H or LAT 1000H (intensive advanced language skills), or equivalent, or a course from the GRK/LAT 1800H series, with a grade of at least B.
 - Completion of three additional graduate courses (1.5 FCEs).
 - Completion of the Ancient History methods course (CLA 3020Y), only for students whose area is Greek and Roman History and Material Culture.

- Completion of CLA 2000Y (1.0 FCE) *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 sight translation examination in either Greek or Latin with a grade of at least B–.
- 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 and Material Culture may 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+, **or by**
 - earning credit for the relative 1000H Advanced Language Studies course.

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

MA Program (One-Year Advanced-Standing Option)

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. For applicants who expect to focus on the areas of Greek and Roman Literature or Ancient Philosophy, the equivalent of at least three and preferably four years of training in Greek and Latin is recommended. For applicants who expect to focus on the area of Greek and Roman History and Material Culture, the equivalent of three years of training in either Greek or Latin and demonstrated excellence in the study of Greek and Roman history and material culture is recommended.
- Students who are otherwise qualified but who lack the required amount of training in Greek and Latin or in Greek and Roman history and material culture should consult with the department about further preparation.

Program Requirements

- Students normally complete **at least 3.0 full-course equivalents (FCEs)**, including the Graduate Research Paper, selected in consultation with the Graduate

Coordinator, and complete the **sight translation examination** and **qualifying examination(s)**.

- Completion of one (0.5 FCE) of GRK 1000H or LAT 1000H (intensive advanced language skills), or equivalent, or a course from the GRK/LAT 1800H series, with a grade of at least B.
- Completion of three additional graduate courses (1.5 FCEs).
- Completion of the Ancient History methods course (CLA 3020Y), only for students whose area is Greek and Roman History and Material Culture.
- Completion of CLA 2000Y (1.0 FCE) *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 sight translation examination in either Greek or Latin with a grade of at least B–.
- 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 and Material Culture 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+, **or by**
 - earning credit for the relative 1000H Advanced Language Studies course.

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

Classics: Classics PhD

PhD Program

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 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.

Program Requirements

- **Coursework.** Satisfactory completion of:
 - GRK 1000H (0.5 FCE) or equivalent
 - LAT 1000H (0.5 FCE) 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 Year 1 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.
 - CLA 2000Y (1.0 FCE) *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.
 - 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).
 - Satisfactory participation for at least two years in the seminar series for the student's field (SRD 4444Y⁰ or AMP 2000Y).
- **Qualifying exam.** 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.
- 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 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 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.
- The **dissertation** should be completed by the end of Year 5.

Program Length

5 years

Time Limit

6 years

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

PhD Program (Advanced-Standing)

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.
- Applicants are admitted with advanced standing if they have successfully completed a strong master's program in Classics. Students who have completed the MA program in Classics at the University of Toronto are required to have grades of at least B+ in all graded coursework and a grade of at least A- on the *Graduate Research Paper* CLA 2000Y.

Program Requirements

- **Coursework.** Satisfactory completion of:
 - GRK 1000H (0.5 FCE) or equivalent
 - LAT 1000H (0.5 FCE) or equivalent.
- 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). Students who have completed CLA 2000Y with a grade of at least A- for their MA degree, or who have a comparable achievement, need 8 seminars with an A- average.
- Satisfactory participation for at least two years in the seminar series for the student's field (SRD 4444Y⁰ or AMP 2000Y). This includes the Ancient History methods course for those students whose field is Greek and Roman History and Material Culture.
- **Qualifying exams.**
 - Completion of the Greek qualifying examination and Latin qualifying examination with grades of at least B+. Students whose field is Greek and Roman History and Material Culture may choose to complete either the Greek qualifying examination or the Latin qualifying examination with a grade of B+ based on the MA reading list instead of the PhD reading list. Students in this field who are enrolled in the Mediterranean Archaeology collaborative specialization (MACS) may choose to satisfy the other language examination by passing an 1800H-level language course in that language with a 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 four-year PhD program, but passing the exams at an earlier stage is advisable. 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.
 - Completion of the respective Area examination with a grade of at least B+ for students whose field is Greek and Roman Literature or Greek and Roman History and Material Culture.

- 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 and Material Culture 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. Students in this field who are enrolled in the Mediterranean Archaeology collaborative specialization (MACS) may choose to satisfy the other language examination by passing an 1800H-level language course in the other language with a B+.
- 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 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 2 of the four-year PhD program 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 may 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 3 of the four-year PhD program.
- The **dissertation** should be completed by the end of Year 4.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Direct-Entry)

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 a strong bachelor's program in classics of a related field with at least an A- average in the final year. For students who expect to focus on the areas of Greek and Roman Literature or Ancient Philosophy, at least three years of study in both Greek and Latin and a broad preparation in the reading of ancient texts in the original languages is recommended. For applicants who expect to focus on the area of Greek and Roman History and Material Culture, the equivalent of three years of training in either Greek or Latin, familiarity with the other language, and demonstrated excellence in the study of Greek and Roman history and material culture is required.

Program Requirements

- **Coursework.** Satisfactory completion of:
 - GRK 1000H (0.5 FCE) or equivalent
 - LAT 1000H (0.5 FCE) or equivalent.
- 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).
- With permission of the Graduate Coordinator, two of the seminars in Year 1 may be exchanged for CLA 2000Y (1.0 FCE) *Graduate Research Paper*. A grade of A- is required for completion. Doctoral students who complete the *Graduate Research Paper* at a lower standard which nevertheless satisfies the MA requirement will be granted the MA.
- Satisfactory participation for at least two years in the seminar series for the student's field (SRD 4444Y⁰ or AMP 2000Y). This includes the Ancient History methods course for those students whose field is Greek and Roman History and Material Culture.
- **Qualifying exams.**
 - Completion of the Greek qualifying examination and Latin qualifying examination with grades of at least B+. Students in the Greek and Roman History and Material Culture field may choose to complete either the Greek qualifying examination or the Latin qualifying examination with a grade of B+ based on the MA reading list instead of the PhD reading list. Students in this field who are enrolled in the Mediterranean Archaeology collaborative specialization (MACS) may choose to satisfy the other language examination by passing an 1800H-level language course in that language with a 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 five-year PhD program. Doctoral students who complete the qualifying examinations at a lower standard which nevertheless satisfies the MA requirement will be granted the MA.
 - Completion of the respective Area examination with a grade of at least B+ for students whose field is Greek and Roman Literature or Greek and Roman History and Material Culture.
- 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 and Material Culture 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. Students in this area of emphasis who are enrolled in the Mediterranean Archaeology collaborative specialization (MACS) may choose to satisfy the other language examination by passing an 1800H-level language course in that language with a B+.
- 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 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 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 may 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.

- The **dissertation** should be completed by the end of Year 5.

Program Length

5 years

Time Limit

7 years

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

Classics: Classics MA, PhD Courses

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 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 1806H	Readings in the Roman Historians
LAT 1809H	Readings in Roman Republican Literature and Culture
LAT 1810H	Readings in Roman Imperial Literature and Culture
LAT 2505Y ⁰	Latin Sight Exam
CLA 1800H	Special Topics in Classical Literature
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 4000Y ⁰	Major Field
AMP 2000Y ⁰	Collaborative Program in Ancient and Medieval Philosophy Proseminar
JCO 5121H	Classics and Theory
SRD 4444Y ⁰	Ancient History Seminar/Literature Seminar

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 [course offerings](#) in the current year.

CLA 5000H	Early Greek Epic
CLA 5004H	Studies in Greek Poetry
CLA 5007H	Criticism of Latin Poetry
CLA 5009H	Literature of the Roman Republic
CLA 5010H	Virgil
CLA 5012H	Studies in Ancient Philosophy I
CLA 5013H	Studies in Ancient Science
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 1305H	Studies in Classical Latin
CLA 1306H	Studies in Greek Literature I
CLA 1308H	Studies in Latin Literature I
CLA 1309H	Studies in Latin Literature II

Comparative Literature

Comparative Literature: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Comparative Literature

MA and PhD

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - Comparative Literature, MA, PhD
- [Diaspora and Transnational Studies](#)
 - Comparative Literature, MA, PhD
- [Jewish Studies](#)
 - Comparative Literature, MA, PhD
- [Sexual Diversity Studies](#)
 - Comparative Literature, MA, PhD
- [South Asian Studies](#)
 - Comparative Literature, MA, PhD
- [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 multiple languages. Students pursue research across languages and national literatures, engaging with theoretical issues that cross traditional disciplines. The centre's faculty and students work across linguistic boundaries, employing rigorous critical and theoretical lenses to bring into dialogue literature and other cultural forms that are often kept apart by artificially constructed institutional, geographical or ideological boundaries.

At the heart of the research by faculty and students is the close engagement with cultural products in their original languages. Knowledge of languages is a key component in our practice of Comparative Literature. Comparative Literature examines both the contexts of literature and the interaction among literatures. The practice of Comparative Literature at Toronto extends to visual expression as well, with film, photography or graphic novels figuring prominently in the projects of many faculty and students. Graduate programs at the Centre for Comparative Literature foster rigorous reading practices and theoretical reflection.

Interested applicants should consult the [centre's website](#). It provides updated information about course scheduling and academic profiles of graduate faculty.

Contact and Address

Web: 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

Comparative Literature: Graduate Faculty

Full Members

Bai, Ruoyun - BA, MA, PhD
 Cazdyn, Eric - BA, MA, PhD
 Comay, Rebecca - BA, MA, PhD
 Dowling, Sarah - AB, AM, 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
 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 (**Associate Director**)
 Ross, Jill - BA, MA, PhD (**Director**)
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Sakaki, Atsuko - BA, MA, PhD
 Zilcosky, John - BA, MA, MA, PhD

Members Emeriti

Davis, Natalie - BA, MA, PhD
 Kushner, Eva - BA, MPH, PhD
 Nesselroth, Peter - BA, MA, PhD
 Perron, Paul - PhD
 Stock, Brian - AB, PhD

Associate Members

Akbari, Suzanne - BA, MA, MPH, PhD
 Bahooora, Haytham - BA, MA, PhD
 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
 Fernandez, David Andres - BA, MLS
 Goetschel, Willi - PhD

Gunderson, Erik - BA, MA, PhD
 Hewitt, Marsha - BA, MA, PhD
 Holland, Kate - MA, PhD
 Kandiyoti, Dalia - PhD
 Keith, Alison - BA, MA, PhD, FRSC
 Legge, Elizabeth M.M. - BA, BA, MA, PhD
 Leonard, Garry - BA, MA, PhD
 Matus, Jill - BA, MA, PhD
 Meng, Yue - BA, MA, MA, PhD
 Motsch, Andreas - PhD
 Noyes, John - BA, MA, PhD
 Paterson, Janet - BA, MA, 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
 Weisman, Karen - BA, PhD
 Wohl, Victoria - BA, MA, PhD
 Xie, Ming - BA, PhD

Comparative Literature: Comparative Literature MA

Master of Arts

Program Description

The Comparative Literature MA program is a **course-based program** that accommodates a diverse range of students' interests. The interdisciplinary and transnational character of the program is reflected in the fact that students may take up to half their courses in other departments of their choice. Students work in languages other than English, and their study may include work in a non-literary discipline. The COL 1000H *Faculty Seminar* provides a basis for study in the program. All incoming students take this seminar course where they consider core theoretical problems of comparison.

All incoming students meet with the Graduate Coordinator to discuss their program and to decide on their course of study before beginning classes.

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:
 - COL 1000H *Faculty Seminar* (0.5 FCE)
 - at least 1.5 FCEs in COL courses.
- 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 is defined by each MA student through consultation with the Associate Director 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

Comparative Literature: Comparative Literature PhD

Doctor of Philosophy

Program Description

The Comparative Literature PhD program accommodates a diverse range of students' interests united by a shared concern for comparative issues. The interdisciplinary and transnational character of the program is reflected in the fact that students may take up to approximately half their courses in other departments of their choice. Students work in at least two languages other than English, and their study may include work in a non-literary discipline.

All incoming students meet with the Associate Director to discuss their program and to decide on their course of study before beginning classes.

The Centre for Comparative Literature only provides supervision in areas which fall within the competency, interests, or availability of its graduate faculty. The Centre supports research which engages creative practice with humanities-based theory and scholarship. Prospective students with an existing creative practice who are interested in using research creation methods are encouraged to contact

the Associate Director to discuss the varieties of projects that can be supported. Fields of research creation may include, but are not limited to: architecture, design, creative writing, visual arts, performance, film, video, interdisciplinary arts, media and electronic arts, and new artistic practices (including experiments with the hard and social sciences). The Centre does not provide studio space or production facilities.

PhD Program

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.
- Applicants, including those from the University of Toronto, must arrange for recommendations from two referees; must submit a statement of purpose of approximately 500 words; and must submit a sample of written work, preferably a short essay on a literary topic.
- The Centre welcomes applications from people with an established creative practice who would like to incorporate [creative research methodologies](#) into their dissertation work. Applicants who are interested in doing so must have the required expertise and resources to carry out the proposed creative work. Their letter of intent must 1) describe the type of creative research practice they intend to pursue so the Centre can determine whether it can provide appropriate supervisory and committee support. The applicant must 2) direct at least one reference letter writer to testify to the applicant's competency in the relevant creative practice, and the applicant must 3) articulate how the creative practice may be employed as a method for elucidating critical questions animating the dissertation project.

Program Requirements

- A student with an **MA in Comparative Literature** or its equivalent must take at least **4.5 full-course equivalents (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. The actual number of courses required for the PhD will be established at the time of admission through consultation with the Director/Associate Director.
- 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.
- Students define the scope and approach of their **plan of study** in consultation with the Associate Director 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 Year 2 of PhD study. The field examination is taken ideally no later than the end of the first session of Year 3.

- 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.
- 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 **dissertation** which must be an original and significant contribution to the existing body of knowledge. This dissertation may include a [creative research component](#).
- **Students' progress** will be assessed at least once a year by the Centre's Graduate Academic Committee and/or their respective supervisory committees. Although the program has been designed for completion in four years, some students may require a longer period to complete all of the requirements.
- 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Students coming directly out of an appropriate undergraduate program (direct-entry) 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.
- Applicants, including those from the University of Toronto, must arrange for recommendations from two referees; must submit a letter of intent not exceeding 500 words; and must submit a sample of written work, preferably a short essay on a literary topic.
- The Centre welcomes applications from people with an established creative practice who would like to incorporate [creative research methodologies](#) into their dissertation work. Applicants who are interested in doing so must have the required expertise and resources to carry out the proposed creative work. Their letter of intent must 1) describe the type of creative research practice they intend to pursue so the Centre can determine whether it can provide appropriate supervisory and committee support. The applicant must 2) direct at least one reference letter writer to testify to the applicant's competency in the relevant creative practice, and the applicant must 3) articulate how the creative practice may be employed as a method for elucidating critical questions animating the dissertation project.

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. The actual number of courses required for the PhD will be established at the time of admission through consultation with the Director/Associate Director.
- 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.
- Students define the scope and approach of their **plan of study** in consultation with the Associate Director 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 Year 2 of PhD study. The field examination is taken ideally no later than the end of the first session of Year 3.
- 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.

- 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 **dissertation** which must be an original and significant contribution to the existing body of knowledge. This dissertation may include a [creative research component](#).
- **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.

Program Length

5 years

Time Limit

7 years

Comparative Literature: Comparative Literature MA, PhD Courses

Students should consult the [Comparative Literature website](#) for courses that may be taken for credit.

COL 1000H	Faculty Seminar
COL 1900H	Reading and Research for the MA
COL 2100H	Special Topics Course
COL 4000Y	Practicum on Research and Bibliography in Comparative Literature

COL 5012H	How Aesthetics was Made a Science: Readings in Czech and Russian
COL 5016H	Dramatic Text and Theoretical Communication: Bertolt Brecht, Robert Lepage, and Robert Wilson
COL 5018H	Gender and Agency
COL 5027H	Memory, Trauma, and History
COL 5029H	Reading Cervantes
COL 5032H	Feminist Approaches to Medieval Literature
COL 5033H	Visual Portraits in Contemporary Autobiographical Narratives
COL 5037H	Magic Prague: Questions of Literary Cityspaces
COL 5047H	The Two Avant-Gardes
COL 5052H	Marxism and Form
COL 5062H	Prague School Semiotics of Drama, Theater, and Cinema in Contemporary Context
COL 5072H	Affinities: Readings of Realism and Radicalism
COL 5079H	Lacan and Psychoanalytical Thought
COL 5081H	Benjamin's Arcades Project
COL 5090H	Introduction to Visual Culture
COL 5094H	Forms of Critical Writing
COL 5095H	Giorgio Agamben: Exception and Potentiality
COL 5096H	The Problem of Translation: Historical, Theoretical, and Pragmatic Perspectives
COL 5101H	Diasporic Cities: Itinerant Narratives of Metropolises by Travellers and Expatriates
COL 5109H	Jean-Luc Nancy: Retreating the Aesthetic
COL 5110H	Post-Capitalist Fantasy: Culture, Politics, Subjectivity
COL 5114H	Destruction of Images
COL 5115H	Said: Beginning with Beginnings
COL 5117H	Freud and Psychoanalysis
COL 5118H	Sovereignty: Hobbes and his 21st-Century Successors
COL 5119H	Girls and Sex in the 21st Century
COL 5122H	Text and Digital Media
COL 5123H	Converting to Digital Humanities
COL 5124H	Public Reading: Literature and the Formation of Critical Publics
COL 5125H	Literature, Trauma, Modernity
COL 5126H	Sports Narrated: Literary and Interdisciplinary Explorations
COL 5127H	Queer Ethics and Aesthetics of Existence
COL 5128H	Tragedy: Instantiations of a Dramatic Form in Theatre, Philosophy, Opera, and Popular Cinema
COL 5129H	New Addictions for the Anthropocene
COL 5130H	Comparison and "the Human"
COL 5131H	Non Disclosure Acts
COL 5132H	One Philosopher and One Artist: Towards a New Practice of Comparison
COL 5133H	Comparative Modernisms
COL 5135H	Climate Genres
COL 5136H	Aesthetics of Space, Place, and Power
COL 5137H	Paraliterary Practices and Dialogic Creativity
COL 5138H	Dramaturgy of the Dialectic
COL 5139H	Critical Race Theory
COL 5140H	Beckett and Philosophy
COL 5141H	Beyond the Anthropocene: New Directions in Environmental Humanities
COL 5142H	Women and Sex and Talk

JFC 5025H	Feminism and Postmodernism: Theory and Practice
JFC 5105H	Collections of Knowledge: Encyclopedism and Travel Literature in Early Modern Europe (1500. 1800)
JFC 5129H	Performative Autobiographical Acts: Painted and Photographic Representations of Self in Personal and Political Testimonials
JGC 1855H	Critical Theory in Context: The French-German Connection
JHL 1282H	Comparative Totalitarian Culture
JHL 1680H	Revolutionary Women's Cultures in East Asia, Early to Mid 20th Century
JLE 5225H	The Passage from History to Fiction
JLV 5134H	Theories of the Novel
JOS 5019H	Cervantes and Renaissance Humanism

Computer Science

Computer Science: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Applied Computing

MScAC

- Concentrations:
 - Applied Mathematics;
 - Data Science;
 - Quantum Computing

Computer Science

MSc and PhD

Collaborative Specializations

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

- [Genome Biology and Bioinformatics](#)
 - Computer Science, PhD
- [Knowledge Media Design](#)
 - Computer Science, MSc, PhD
- [Neuroscience](#)
 - Computer Science, MSc, PhD

Overview

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: web.cs.toronto.edu
 Email: gradapplications@cs.toronto.edu
 Telephone: (416) 978-8762

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

Computer Science: Graduate Faculty

Full Members

Abdelrahman, Tarek - BSc, MSc, PhD
 Amza, Cristiana - BS, MS, PhD
 Anderson, Ashton Chandler Justin - BEng, MSc, PhD
 Aspuru-Guzik, Alan - PhD
 Ba, Jimmy - PhD, PhD, PhD
 Bacchus, Fahiem - BS, SM, PhD
 Bader, Gary - BSc, PhD
 Balakrishnan, Ravin - BS, SM, PhD
 Beck, J. Christopher - BSc, MSc, PhD
 Bonner, Anthony - BSc, MSc, PhD
 Borodin, Allan - BS, SM, PhD, FAAAS
 Brudno, Michael - AB, SM, PhD
 Burgner-Kahrs, Jessica - PhD
 Chechik, Marsha - BS, SM, PhD (**Chair and Graduate Chair**)
 Chevalier, Fanny - PhD
 Christara, Christina - BS, SM, PhD
 De Lara, Eyal - BS, MS, PhD
 Demke Brown, Angela - BS, SM, PhD (**Coordinator, Graduate Studies**)
 Dickinson, Sven Josef - BASc, MS, PhD
 Easterbrook, Steve - BSc, PhD
 Ellen, Faith - BM, MMath, PhD
 Erdogdu, Murat Anil - PhD
 Fairgrieve, Thomas - BMath, MSc, PhD
 Farzan, Azadeh - BS, PhD
 Fleet, David James - BS, MS, PhD
 Fox, Mark - BSc, PhD
 Frey, Brendan - BSc, MSc, PhD
 Ganjali, Yashar - BSc, MSc, PhD
 Garg, Animesh - BE, MS, MS, PhD
 Ghassemi, Marzyeh - PhD
 Goel, Ashvin - BTech, MS, PhD
 Goldenberg, Anna - PhD
 Grossman, Tovi - PhD
 Gupta, Arvind - BSc, PhD
 Hadzilacos, Vassos - BSE, PhD
 Hirst, Graeme - BA, BSc, MSc, PhD
 Jackson, Kenneth - BSc, MSc, PhD
 Jacobsen, Hans-Arno - MCS, PhD
 Jepson, Allan - BSc, PhD
 Kim, Philip - BS, PhD
 Koudas, Nick - BS, MS, PhD
 Kutulakos, Kiriakos - BS, MSc, PhD
 Li, Baochun - BEng, MSc, DPhil
 Lie, David - BASc, MS, PhD
 Liebeherr, Jorg - Diplng, PhD
 Long, Fan - PhD
 Lyons, Kelly - BSc, MSc, PhD
 Marbach, Peter Josef - Diplng, MS, PhD

McIlraith, Sheila - BSc, MSc, PhD
 Mehri Dehnavi, Maryam - PhD
 Mihailidis, Alex - BAsC, MAsC, PhD
 Miller, Renee - BS, BM, MS, PhD
 Molloy, Michael - BMath, MMath, PhD
 Morris, Quaid - BS, PhD
 Moses, Alan - BA, PhD
 Neal, Radford - BSc, MSc, PhD
 Nikolov, Aleksandar - PhD
 Pekhimenko, Gennady - BS, MS, PhD
 Penn, Gerald - BS, MSc, PhD
 Pitassi, Toniann - BS, SM, PhD
 Rudzicz, Frank - PhD
 Sachdeva, Sushant - BTech, MA, PhD
 Schroeder, Bianca - MSc, PhD
 Shah, Nisarg - PhD
 Shkurti, Florian - BSc, MSc
 Singh, Karan - BS, MS, PhD
 Stevenson, Suzanne Ava - MS, PhD
 Stumm, Michael - MS, PhD
 Sun, Yu - BS, MS, MS, PhD
 Taati, Babak - PhD
 Toueg, Sam - BS, MA, MSEE, PhD
 Truong, Khai Nhut - BSc, PhD
 Urtasun, Raquel - PhD
 Veneris, Andreas - BSc, MSc, PhD
 Wigdor, Daniel - PhD
 Williams, Joseph - PhD
 Xu, Yang - PhD
 Yu, Eric - BSc, MMath, PhD
 Yuen, Henry - PhD
 Zemel, Richard - BA, SM, PhD
 Zhang, Zhaolei - BS, PhD

Members Emeriti

Baecker, Ronald - BS, SM, PhD
 Cook, Stephen - BS, SM, PhD
 Enright, Wayne - BSc, MSc, PhD
 Fiume, Eugene - BM, MSc, PhD
 Hehner, Eric - BSc, MSc, PhD
 Hinton, Geoffrey - BA, PhD
 Levesque, Hector - BSc, MSc, PhD
 Mylopoulos, John - BE, MSc, PhD

Associate Members

Beekhuizen, Barend - BA, MA, PhD
 Gabel, Moshe - BSc, MSc, PhD
 Huang, Huaxiong - BSc, PhD
 Kahrs, Lueder Alexander - MSc, PhD
 Kreinin, Alexander - MSc, PhD
 Rost, Hannes - PhD
 Tsotsos, John - BAsC, MSc, PhD, CRC
 Yuan, Ding - PhD

Computer Science: Applied Computing MScAC

Master of Science in Applied Computing

Program Description

The MScAC program is offered as a general program (no concentration) or as a concentration in Applied Mathematics, Data Science, or Quantum Computing.

The Applied Mathematics concentration is offered jointly by the Department of Computer Science and the Department of Mathematics. The Data Science concentration is offered jointly by the Department of Computer Science and the Department of Statistical Sciences. The Quantum Computing concentration is offered jointly by the Department of Computer Science and the Department of Physics.

MScAC General Program (No Concentration)

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 standing equivalent to at least B+ in the final year 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

- **Coursework.** Completion of **3.0 full-course equivalents (FCEs)** including:
 - 1.0 FCE in required courses: technical communications (CSC 2701H) and technical entrepreneurship (CSC 2702H).
- An eight-month industrial **internship**, CSC 2703H (3.5 FCEs). The internship 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

MScAC Program (Applied Mathematics Concentration)

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 from a recognized university in a related area such as applied mathematics, mathematics, physics, computational mathematics, statistics, computer science, or any discipline where there is a significant quantitative and/or mathematical component. The completed bachelor's degree must include significant exposure to advanced mathematics, statistics, and computer science, including coursework in advanced and multivariate calculus (preferably analysis), linear algebra, probability and statistics, programming languages, and general computational methods.
- A standing equivalent to at least B+ in the final year 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 reference from faculty and/or employers, with preference for at least one such letter from a faculty member in Mathematics or Applied Mathematics.
- A statement of purpose (limited to 500 words) explaining the applicant's interest in applied mathematics and objectives for the program.
- Applicants must indicate a preference for the concentration in Applied Mathematics in their application. Admission is competitive, and students who are admitted into the MScAc program are not automatically admitted to this concentration upon request.
- There is no thesis requirement.

Program Requirements

- **Coursework.** Completion of **3.0 full-course equivalents (FCEs)** including:
 - 1.0 FCE chosen from the MAT 1000-level courses or higher. This may include courses cross-listed as APM400 level.
 - 1.0 FCE chosen from the Computer Science (CSC course designator) graduate course listings.
 - 1.0 FCE in required courses:
 - CSC 2701H *Communication for Computer Scientists* (0.5 FCE) and
 - CSC 2702H *Technical Entrepreneurship* (0.5 FCE).
 - Course selections should be made in consultation with the Program Director.
- An eight-month industrial **internship**, CSC 2703H (3.5 FCEs). The internship is coordinated by the department and evaluated on a pass/fail basis.

Program Length

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

Time Limit

3 years full-time

MScAC Program (Data Science Concentration)

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 from a recognized university in a related area such as statistics, computer science, mathematics, or any discipline where there is a significant quantitative component. The completed bachelor's degree must include significant exposure to statistics, computer science, and mathematics, including coursework in advanced calculus, linear algebra, probability and statistics, programming languages, and computational methods.
- A standing equivalent to at least B+ in the final year 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.
- Applicants must indicate a preference for the concentration in Data Science in their application. Admission is competitive, and students who are admitted to the MScAC program are not automatically admitted to this concentration upon request.

Program Requirements

- **Coursework.** Completion of **3.0 full-course equivalents (FCEs)** including:
 - 1.0 FCE chosen from the STA 2000-level courses or higher. This may include a maximum of 0.5 FCE chosen from the STA 4500-level of six-week modular courses (0.25 FCE each).
 - 1.0 FCE chosen from the Computer Science (CSC course designator) graduate course listings.
 - 1.0 FCE in required courses:
 - CSC 2701H *Communication for Computer Scientists* (0.5 FCE) and
 - CSC 2702H *Technical Entrepreneurship* (0.5 FCE).
 - Course selections should be made in consultation with the Program Director.
- An eight-month industrial **internship**, CSC 2703H (3.5 FCEs). The internship 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

MScAC Program (Quantum Computing Concentration)

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 from a recognized university in a related area such as physics, computer science, mathematics, or any discipline where there is a significant quantitative component. The completed bachelor's degree must include significant exposure to physics, computer science, and mathematics, including coursework in advanced quantum mechanics, multivariate calculus, linear algebra, probability and statistics, programming languages, and computational methods.
- A standing equivalent to at least B+ in the final year 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 reference from faculty and/or employers, with preference for at least one such letter from a faculty member in Physics.
- A statement of purpose (limited to 500 words) explaining the applicant's interest in quantum computing and objectives for the program.
- Applicants must indicate a preference for the concentration in Quantum Computing in their application. Admission is competitive, and students who are admitted to the MScAC program are not automatically admitted to this concentration upon request.

Program Requirements

- **Coursework.** Completion of **3.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE chosen from the Physics (PHY course designator) graduate course listings. Of eligible courses, the following are examples that are particularly relevant to the Quantum Computing concentration:
 - PHY 1500H *Statistical Mechanics* (0.5 FCE)
 - PHY 1520H *Quantum Mechanics* (0.5 FCE)
 - PHY 1610H *Scientific Computing for Physicists* (0.5 FCE)
 - PHY 2203H *Quantum Optics I* (0.5 FCE)
 - PHY 2204H *Quantum Optics II* (0.5 FCE)
 - PHY 2211H *Quantum Information Theory* (0.5 FCE)

- PHY 2212H *Entanglement Physics* (0.5 FCE)
- 1.0 FCE chosen from the Computer Science (CSC course designator) graduate course listings. Of eligible courses, the following are examples that are particularly relevant to the Quantum Computing concentration:
 - CSC 2305H *Numerical Methods for Optimization Problems* (0.5 FCE)
 - CSC 2414H *Topics in Applied Discrete Mathematics* (0.5 FCE)
 - CSC 2421H *Topics in Algorithms* (0.5 FCE)
 - CSC 2451H *Quantum Computing, Foundations to Frontier* (0.5 FCE)
- 1.0 FCE in required courses:
 - CSC 2701H *Communication for Computer Scientists* (0.5 FCE)
 - CSC 2702H *Technical Entrepreneurship* (0.5 FCE)
- Course selections should be made in consultation with the Program Director. Appropriate substitutions may be possible with approval.
- An eight-month industrial **internship**, CSC 2703H (3.5 FCEs). The internship 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: Computer Science MSc

Master of Science

Program Description

The MSc degree program is designed for students seeking to be trained as a researcher capable of creating original, internationally recognized research in computer science.

Computer Science courses are classified by Methodologies and Research Areas based on their content. Methodologies are core problem-solving approaches and/or techniques and general tools emphasized in the course material, while Research Areas are aligned with the activities of the various research groups in the department.

The MSc program can be taken 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 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

- **Coursework.** Completion of **2.0 graduate full-course equivalents (FCEs)** in computer science. The courses must satisfy breadth in three of the four different Methodologies of Computer Science to ensure that MSc graduates have a breadth of skills for research and problem solving throughout their careers.
- A major research paper (CSC 4000Y [1.0 FCE]) 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.

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

Computer Science: Computer Science PhD

Doctor of Philosophy

Program Description

The PhD degree program is designed for students seeking to be trained as a researcher capable of creating original, internationally recognized research in computer science. Research conducted under the supervision of a faculty member will constitute a significant and original contribution to computer science.

Computer Science courses are classified by Methodologies and Research Areas based on their content. Methodologies are core problem-solving approaches and/or techniques and general tools emphasized in the course material, while Research Areas are aligned with the activities of the various research groups in the department.

Applicants may enter the PhD program via one of two routes:
1) ing completion of an appropriate master's degree or 2) direct entry following completion of a bachelor's degree.

PhD Program

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+. 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 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

- **Coursework.** Students must complete **2.0 full-course equivalents (FCEs) and a thesis.**
- The courses must satisfy breadth in four different research areas of computer science to ensure a broad and well-balanced knowledge of computer science.
- Students must meet the department's timeline for satisfactory progress as outlined in the [PhD handbook](#).
- A meeting of the PhD supervisory committee 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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 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

- Coursework.** Students must complete **4.0 full-course equivalents (FCEs) and a thesis.**
- The courses must satisfy breadth in four different research areas and three different methodologies of computer science to ensure a broad and well-balanced knowledge of computer science.
- Students must meet the department's timeline for satisfactory progress as outlined in the [PhD handbook](#).
- A meeting of the PhD supervisory committee 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

5 years

Time Limit

7 years

Computer Science: Computer Science MScAC, MSc, PhD Courses

Not all courses are offered every year. Please consult the department for course offerings.

CSC 2104H	Formal Methods of Program Design
CSC 2107H	Compilers and Interpreters
CSC 2108H	Automated Verification
CSC 2125H	Algorithmic Program Verification
CSC 2130H	Empirical Research Methods in Software Engineering
CSC 2206H	Computer Systems Modelling
CSC 2208H	Advanced Operating Systems
CSC 2209H	Computer Networks
CSC 2221H	Introduction to Distributed Computing
CSC 2222H	Applications of Parallel and Distributed Computing
CSC 2224H	Parallel Computer Architecture and Programming
CSC 2226H	Topics in Verification
CSC 2227H	Topics in the Design and Implementation of Operating Systems

CSC 2228H	Topics in Mobile, Pervasive, and Cloud Computing
CSC 2231H	Topics in Computer Systems
CSC 2233H	Topics in Storage Systems
CSC 2305H	Numerical Methods for Optimization Problems
CSC 2306H	High Performance Scientific Computing
CSC 2310H	Computational Methods for Partial Differential Equations
CSC 2321H	Matrix Calculations
CSC 2326H	Topics in Numerical Analysis
CSC 2401H	Introduction to Computational Complexity
CSC 2404H	Computability and Logic
CSC 2410H	Introduction to Graph Theory
CSC 2412H	Algorithms for Private Data Analysis (Prerequisite: CSC 373 or equivalent, or permission of the instructor.)
CSC 2414H	Topics in Applied Discrete Mathematics
CSC 2415H	Advanced Topics in the Theory of Distributed Computing
CSC 2416H	Machine Learning Theory
CSC 2417H	Algorithms for Genome Sequence Analysis
CSC 2419H	Topics in Cryptography
CSC 2420H	Algorithm Design, Analysis, and Theory
CSC 2421H	Topics in Algorithms
CSC 2426H	Fundamentals of Cryptography
CSC 2427H	Topics in Graph Theory
CSC 2429H	Topics in the Theory of Computation
CSC 2431H	Topics in Computational Molecular Biology
CSC 2451H	Quantum Computing, Foundations to Frontier (Exclusion: MAT 1751H Quantum Computing, Foundations to Frontier.)
CSC 2501H	Computational Linguistics
CSC 2502H	Knowledge Representation and Reasoning
CSC 2503H	Foundations of Computer Vision
CSC 2504H	Computer Graphics
CSC 2506H	Probabilistic Learning and Reasoning
CSC 2508H	Advanced Management Systems
CSC 2510H	Topics in Information Systems
CSC 2511H	Natural Language Computing
CSC 2512H	Constraint Satisfaction Problems
CSC 2513H	Critical Thinking for Human Computer Interaction (Prerequisite: CSC 318 or equivalent, or permission of the instructor.)
CSC 2514H	Human-Computer Interaction
CSC 2515H	Introduction to Machine Learning
CSC 2516H	Neural Networks and Deep Learning
CSC 2518H	Spoken Language Processing
CSC 2520H	Geometry Processing
CSC 2521H	Topics in Computer Graphics
CSC 2522H	Advanced Image Synthesis
CSC 2523H	Object Modelling and Recognition
CSC 2524H	Topics in Interactive Computing
CSC 2525H	Research Topics in Database Management
CSC 2526H	HCI: Topics in Ubiquitous Computing
CSC 2527H	The Business of Software
CSC 2528H	Advanced Computational Linguistics
CSC 2532H	Statistical Learning Theory (Prerequisite: CSC 2515H)

CSC 2533H	Foundations of Knowledge Representation
CSC 2534H	Decision Making Under Uncertainty
CSC 2536H	Topics in Computer Science and Education
CSC 2537H	Information Visualization
CSC 2539H	Topics in Computer Vision
CSC 2540H	Computational Cognitive Models of Language
CSC 2541H	Topics in Machine Learning
CSC 2542H	Topics in Knowledge Representation and Reasoning
CSC 2546H	Computational Neuroscience
CSC 2547H	Current Algorithms and Techniques in Machine Learning
CSC 2548H	Machine Learning in Computer Vision
CSC 2549H	Physics-Based Animation
CSC 2552H	Topics in Computational Social Science
CSC 2556H	Algorithms for Collective Decision Making
CSC 2558H	Topics in Multidisciplinary HCI
CSC 2600H	Topics in Computer Science
CSC 2604H	Topics in Human-Centred and Interdisciplinary Computing
CSC 2606H	Introduction to Continuum Robotics (Prerequisite: Introduction to Robotics; e.g, CSC376 offered at UTM or AER525. Exclusion: CSC476 offered at UTM.)
CSC 2611H	Computational Models of Semantic Change
CSC 2612H	Computing and Global Development (Prerequisite: CSC 318 or equivalent, or permission of the instructor.)
CSC 2621H	Topics in Robotics (Prerequisite: CSC 411H or CSC 2515H or ECE 521H.)
CSC 2626H	Imitation Learning for Robotics (Prerequisite: CSC411/2515 Machine Learning and Data Mining or ECE521 Inference Algorithms and Machine Learning or equivalent.)
CSC 2699H	Special Reading Course in Computer Science
CSC 2701H	Communication for Computer Scientists
CSC 2702H	Technical Entrepreneurship
CSC 2703H	MScAC Internship
CSC 2720H	Systems Thinking for Global Problems
CSC 4000Y	MSc Research Project in Computer Science

Criminology and Sociolegal Studies

Criminology and Sociolegal Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Criminology and Sociolegal Studies

MA and PhD

Combined Degree Programs

- [STG, Law, Juris Doctor / Criminology and Sociolegal Studies, MA](#)
- [STG, Law, Juris Doctor / Criminology and Sociolegal Studies, PhD](#)

Collaborative Specializations

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

- [Addiction Studies](#)
 - Criminology and Sociolegal Studies, MA, PhD
- [Diaspora and Transnational Studies](#)
 - Criminology and Sociolegal Studies, MA, PhD
- [Sexual Diversity Studies](#)
 - Criminology and Sociolegal Studies, MA, PhD
- [Women and Gender Studies](#)
 - Criminology and Sociolegal Studies, 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 sociolegal 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, 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: 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

Criminology and Sociolegal Studies: Graduate Faculty

Full Members

Chen, Li - BA, MA, AM, JD, PhD
 Chiao, Vincent - BA, PhD, JD
 DeCelles, Katherine - BS, PhD
 Dubber, Markus - AB, JD
 Goodman, Philip - BA, MA, PhD
 Hannah-Moffat, Kelly - BA, MA, PhD
 Kruttschnitt, Candace - BA, MA, MPH, PhD
 Light, Matthew - BA, MA, JD, PhD
 Macklin, Audrey - BSc, LLB, LLM (**Director**)
 Maurutto, Paula - DPhil
 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

Doob, Anthony - AB, PhD, FRSC
 Friedland, Martin - BCom, LLB, PhD
 Gartner, Rosemary - BA, AA, MS, PhD

Associate Members

Contreras, Randol - BA, MA, PhD
 Evans, Catherine - PhD
 Laniyonu, Ayobami - BA, MA, PhD
 Taylor, Kerry - JD

Criminology and Sociolegal Studies: Criminology and Sociolegal Studies MA

Master of Arts

Program Description

The MA program encompasses two related disciplinary and interdisciplinary fields.

The first is criminology, which can be briefly defined as the study of all aspects of crime, including its definitions, causes, and intellectual genealogy, as well as the policy and institutional responses to it. Although criminology features some aspects of a separate discipline, including its own theoretical schools, journals, and university departments, it also draws heavily on related social science disciplines.

The field of sociolegal studies, also known as the law and society movement, is a related interdisciplinary research tradition that investigates a broad range of legal phenomena using the techniques and approaches of social science. Examples of such phenomena that the faculty have studied include citizenship and immigration policy, urban planning, and the regulation of alcohol and sex work.

The program is distinctive in that these bodies of knowledge are treated as closely related, and both of them are incorporated into the program of study. Broad intellectual exploration of these fields is incorporated by limiting the number of required courses and encouraging students to select courses (both in this and other graduate programs) that reflect their own intellectual and professional priorities. Likewise, students are given the option of meeting their degree requirements by completing eight taught half-courses or by completing six taught half-courses and writing a “master’s research paper” that allows them to develop an independent research project under the supervision of a faculty member. While specialized professional or technical training meant to be directly transferable into criminal justice occupations is not provided, we welcome applications by criminal justice professionals who wish to pursue part-time studies.

The MA program enjoys an excellent national and international reputation, and graduates are sought by employers in both the public and private sectors who appreciate the theoretically and academically rigorous interdisciplinary social science training that is provided.

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.

- Although many applicants to the MA program have some training in criminology or sociolegal studies, students from a variety of disciplinary and interdisciplinary backgrounds are welcomed. It would be advantageous for MA students in the program to have some familiarity with the approaches and methodologies associated with the social sciences. However, outstanding students from the humanities and behavioral and natural sciences will also be considered.
- 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 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** (CRI 3360Y) within 12 months.
- The degree program includes compulsory and elective courses.
 - The compulsory course (0.5 FCE) is CRI 2010H *Methodological Issues in Criminology and Sociolegal Studies*.
 - The elective courses allow students to engage in specialized study of different approaches to, and topics within, criminology and sociolegal studies. The elective 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 elective courses in criminology or sociolegal 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

Criminology and Sociolegal Studies: Criminology and Sociolegal Studies PhD

Doctor of Philosophy

Program Description

Similar to the MA program, the PhD program reflects the same emphasis on interdisciplinarity and flexibility, as well as an integrated, inclusive approach to criminology and sociolegal studies.

The primary mission of the doctoral program is to prepare future professional academics for a career in teaching and research; graduates hold faculty positions throughout Canada, in the United States, and around the world.

Over the years, PhD students have pursued dissertation projects on extremely varied research questions involving aspects of crime, criminal justice institutions, and a range of sociolegal topics. Regardless of their specific focus, they have found the Centre a supportive and interactive environment. The Centre promotes such collegiality by offering students shared office space in the Centre and encouraging them to work on site and participate in the lively intellectual life and shared scholarly activities. Likewise, although PhD students work closely with a primary supervisor, they also benefit from opportunities to learn from other core and cross-appointed faculty members. In short, the goal is to train broadly educated, thoughtful scholars with a research agenda in criminology or sociolegal studies.

Students are normally paired with a prospective supervisor at the time of admission. Therefore, applicants are encouraged to identify one or more possible supervisors, as well as possible dissertation committee members, and should indicate on their application whether they have made contact with particular core or cross-appointed members of the graduate faculty for these purposes.

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 or sociolegal studies 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

- **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 *Methodological Issues in Criminology and Sociolegal Studies*) and the required theory course (CRI 1020H *Law and State Power: Theoretical Perspectives*). With the approval of the Graduate Coordinator, students can take a theory course offered through another graduate unit in lieu of CRI 1020H. Students will normally complete all course requirements for the PhD in Year 1.
- **Professional development sequence.** Year 1 doctoral students will participate in CRI 1010Y (CR/NCR, 0.0 FCE), a sequence of eight monthly workshop meetings of approximately two hours in length led by one or more faculty members and dedicated to discussion of a range of important issues in graduate professional development. Meetings will be scheduled at the beginning of the academic year, and attendance will be taken at each meeting. Students must normally attend at least six workshop meetings by the end of the second session of Year 1 to complete this requirement, and those who do not do so must make up the required sessions by the end of the second session of Year 2.
- **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. The comprehensive exam should normally be completed by the end of the second session of Year 2.
- **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.
- **Residency.** PhD students are required to be on campus full-time for the period of their program, except for approved field research and academic exchanges. Students are expected to participate in the Centre's activities associated with the program.

Program Length

4 years full-time

Time Limit

6 years full-time

Criminology and Sociolegal Studies: Criminology and Sociolegal Studies MA, PhD Courses

All courses are half courses (0.5 FCE), with the exception of CRI 3360Y⁰ *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 Courses

CRI 1010Y ⁰	Professional Development Workshops (Credit/No Credit)
CRI 2010H	Methodological Issues in Criminology and Sociolegal Studies

Elective Courses

CRI 1020H	Law and State Power: Theoretical Perspectives
CRI 2040H	Drugs and Crime
CRI 2060H	Prisons and Punishment
CRI 2120H	Data Analysis
CRI 2140H	Guilt, Responsibility, and Forensics
CRI 2150H	Preventing Wrongful Convictions
CRI 3020H	Criminology and the Policy-Making Process
CRI 3110H	Qualitative Research Methods
CRI 3120H	Politics and Crime
CRI 3130H	Policing
CRI 3140H	Special Topics in Criminology and Sociolegal Studies
CRI 3146H	Inequality and Criminal Justice
CRI 3220H	Organized Crime and Corruption
CRI 3240H	Penology
CRI 3270H	The Psychology of Criminal Behaviour: Theory and Practice
CRI 3310H	Special Topics in Criminology and Sociolegal Studies
CRI 3320H	The Criminal Process
CRI 3330H	Contemporary Issues in Safety and Security
CRI 3340H	Special Topics in Criminology and Sociolegal Studies
CRI 3350H	Directed Research in Criminology and Sociolegal Studies
CRI 3351H	Directed Research in Criminology and Sociolegal Studies
CRI 3355H	Sentencing
CRI 3356H	Youth Crime and Youth Justice

CRI 3360Y ⁰	MA Research Paper
------------------------	-------------------

⁰ Course that may continue over a program. Credit is given when the course is completed, or the course is graded when completed.

Curriculum, Teaching and Learning

CTL: Introduction

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Curriculum & Pedagogy

MA, MEd, and PhD

- Emphases:
 - Arts in Education;
 - Critical Studies in Curriculum and Pedagogy;
 - Digital Technologies in Education;
 - Indigenous Education and Decolonization;
 - Qualitative Methodologies;
 - Science, Mathematics and Technology (SMT);
 - Wellbeing

Language and Literacies Education

MA

MEd

- Field:
 - Language Teaching

PhD

Teaching

MT

- Fields:
 - Elementary Education;
 - Secondary Education

Combined Degree Programs

- [STG, English \(Major\), Honours BA / MT](#)
- [STG, History \(Major\), Honours BA / MT](#)
- [STG, Kinesiology, BKin / MT](#)
- [STG, Mathematics \(Major\), Honours BSc / MT](#)
- [STG, Music Education \(Stream\), MusBac / MT](#)
- [STG, Physical Education and Health, BPHE / MT](#) (this program will close on August 31, 2025)
- [STG, Psychology \(Major\), Honours BSc / MT](#)
- [STG, Sociology \(Major\), Honours BA / MT](#)
- [UTM, Astronomical Sciences \(Specialist\), Honours BSc / MT](#)
- [UTM, Biological Chemistry \(Specialist\), Honours BSc / MT](#)

- [UTM, Biology for Health Sciences \(Major\), Honours BSc / MT](#)
- [UTM, Biology \(Major\), Honours BSc / MT](#)
- [UTM, Biology \(Specialist\), Honours BSc / MT](#)
- [UTM, Chemistry \(Major\), Honours BSc / MT](#)
- [UTM, Chemistry \(Specialist\), Honours BSc / MT](#)
- [UTM, Comparative Physiology \(Specialist\), Honours BSc / MT](#)
- [UTM, Ecology and Evolution \(Specialist\), Honours BSc / MT](#)
- [UTM, Forensic Biology \(Specialist\), Honours BSc / MT](#)
- [UTM, Forensic Chemistry \(Specialist\), Honours BSc / MT](#)
- [UTM, French Studies \(Major\), Honours BA / MT](#)
- [UTM, French Studies \(Specialist\), Honours BA / MT](#)
- [UTM, Language Teaching and Learning: French and Italian \(Specialist\), Honours BA / MT](#)
- [UTM, Language Teaching and Learning: French \(Major\), Honours BA / MT](#)
- [UTM, Mathematical Sciences \(Major\), Honours BSc / MT](#)
- [UTM, Mathematical Sciences \(Specialist\), Honours BSc / MT](#)
- [UTM, Molecular Biology \(Specialist\), Honours BSc / MT](#)
- [UTM, Physics \(Major\), Honours BSc / MT](#)
- [UTSC, Biochemistry \(Major\), Honours BSc / MT](#)
- [UTSC, Biochemistry \(Major Co-op\), Honours BSc / MT](#)
- [UTSC, Biological Chemistry \(Specialist\), Honours BSc / MT](#)
- [UTSC, Biological Chemistry \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Biology \(Major\), Honours BSc / MT](#)
- [UTSC, Chemistry \(Major\), Honours BSc / MT](#)
- [UTSC, Chemistry \(Major Co-op\), Honours BSc / MT](#)
- [UTSC, Chemistry \(Specialist\), Honours BSc / MT](#)
- [UTSC, Chemistry \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Conservation and Biodiversity \(Major\), Honours BSc / MT](#)
- [UTSC, Conservation and Biodiversity \(Specialist\), Honours BSc / MT](#)
- [UTSC, English \(Major\), Honours BA / MT](#)
- [UTSC, English \(Major Co-op\), Honours BA / MT](#)
- [UTSC, English \(Specialist\), Honours BA / MT](#)
- [UTSC, English \(Specialist Co-op\), Honours BA / MT](#)
- [UTSC, Environmental Biology \(Specialist\), Honours BSc / MT](#)
- [UTSC, Environmental Biology \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Environmental Chemistry \(Specialist\), Honours BSc / MT](#)
- [UTSC, Environmental Chemistry \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Environmental Physics \(Specialist\), Honours BSc / MT](#)
- [UTSC, Environmental Physics \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Evolutionary Anthropology \(Major\), Honours BSc / MT](#)
- [UTSC, Evolutionary Anthropology \(Specialist\), Honours BSc / MT](#)
- [UTSC, French \(Major\), Honours BA / MT](#)
- [UTSC, French \(Major Co-op\), Honours BA / MT](#)
- [UTSC, French \(Specialist\), Honours BA / MT](#)
- [UTSC, French \(Specialist Co-op\), Honours BA / MT](#)
- [UTSC, Human Geography \(Major\), Honours BA / MT](#)

- [UTSC, Human Geography \(Specialist\), Honours BA / MT](#)
- [UTSC, History \(Major\), Honours BA / MT](#)
- [UTSC, History \(Specialist\), Honours BA / MT](#)
- [UTSC, Human Biology \(Major\), Honours BSc / MT](#)
- [UTSC, Human Biology \(Specialist\), Honours BSc / MT](#)
- [UTSC, Integrative Biology \(Specialist\), Honours BSc / MT](#)
- [UTSC, Mathematics \(Major\), Honours BSc / MT](#)
- [UTSC, Mathematics \(Major Co-op\), Honours BSc / MT](#)
- [UTSC, Mathematics \(Specialist\), Honours BSc / MT](#)
- [UTSC, Mathematics \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Molecular Biology and Biotechnology \(Specialist\), Honours BSc / MT](#)
- [UTSC, Molecular Biology and Biotechnology \(Specialist Co-op\), Honours BSc / MT](#)
- [UTSC, Molecular Biology, Immunology and Disease \(Major\), Honours BSc / MT](#)
- [UTSC, Physical and Mathematical Sciences \(Specialist\), Honours BSc / MT](#)
- [UTSC, Physics and Astrophysics \(Major\), Honours BSc / MT](#)
- [UTSC, Physics and Astrophysics \(Specialist\), Honours BSc / MT](#)
- [UTSC, Plant Biology \(Major\), Honours BSc / MT](#)
- [UTSC, Socio-Cultural Anthropology \(Major\), Honours BA / MT](#)
- [UTSC, Socio-Cultural Anthropology \(Specialist\), Honours BA / MT](#)
- [UTSC, Sociology \(Major\), Honours BA / MT](#)
- [UTSC, Sociology \(Specialist\), Honours BA / MT](#)
- [UTSC, Theatre and Performance \(Major\), Honours BA / MT](#)

Collaborative Specializations

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

- [Comparative, International and Development Education](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
- [Education, Francophonies and Diversity](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
- [Educational Policy](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
- [Engineering Education](#)
 - Curriculum and Pedagogy, MA, PhD
- [Ethnic and Pluralism Studies](#)
 - Language and Literacies Education, MA, MEd, PhD
- [Knowledge Media Design](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD
- [Sexual Diversity Studies](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
- [Women and Gender Studies](#)
 - Curriculum and Pedagogy, MA, MEd, PhD
 - Language and Literacies Education, MA, MEd, PhD

Overview

The Department of Curriculum, Teaching and Learning (CTL) is the largest of four departments at the Ontario Institute for Studies in Education (OISE). With a diverse community of tenured, tenure-stream faculty, and lecturers, the department offers a wide range of graduate courses and programs relating to academic scholarship and professional practice. Faculty and students research, write, and teach about a wide variety of subjects concerning children, youth, and teachers, both in and out of schools.

The department offers graduate programs in three areas of study: 1) Curriculum & Pedagogy; 2) Language and Literacies Education; and 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:

Web: www.oise.utoronto.ca/orss
 Email: admissions.oise@utoronto.ca
 Tel: (416) 978-4300
 Fax: (416) 323-9964

Office of the Registrar and Student Services
 Ontario Institute for Studies in Education (OISE)
 University of Toronto
 252 Bloor Street West, Room 8-225
 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

CTL: Graduate Faculty

Full Members

Bale, Jeff - BA, MS, PhD
 Bartel, Lee - BA, BMus, MEd, PhD
 Bickmore, Kathy - MA, PhD
 Brett, Clare - BA, MA, PhD (**Chair and Graduate Chair**)
 Burke, Carol-Ann - DipEd, BA, MEd, PhD
 Campbell, Elizabeth - BA, BEd, MEd, PhD

Cooper, Karyn - PhD
 Gagne, Antoinette - BEd, MEd, PhD (**Associate Chair, Student Experience**)
 Gallagher, Kathleen Marie - PhD
 Gaztambide-Fernandez, Ruben - BM, MEd, EdD
 Gitari, Wanja - BEd, MA, PhD
 Goldstein, Tara - BA, PhD
 Hewitt, Jim - BEd, BMATH, MEd, PhD
 Kerekes, Julie - BA, MA, PhD
 Kosnik, Clare - DPhil, DPhil
 Labrie, Normand - BA, MA, PhD
 Lam, Tony - BA, MA, PhD
 Levine, David - BA, MA, PhD
 Mantie, Roger Allan - BM, MM, PhD
 McDougall, Douglas - BM, BEd, MEd, EdD
 Miller, John - BA, MAT, PhD
 Morgan, Cecilia Louise - BA, BA, MA, PhD
 Niyozov, Sarfaro - MEd, MA, PhD
 Nxumalo, Fikile - PhD
 Pedretti, Erminia - BE, MEd, PhD
 Piccardo, Enrica - MA, PhD
 Rehner, Katherine - BA, BE, MEd, PhD
 Rolheiser, Carol - BEd, MEd, PhD
 Sandwell, Ruth - BA, MA, PhD
 Scardamalia, Marlene - PhD
 Simon, Rob - BA, MA, MTh, PhD
 Slotta, James - BS, MPsy, PhD
 Smyth, Elizabeth - BA, BEd, MA, EdD
 Springgay, Stephanie - BEd, BFA, MA, PhD
 Stagg Peterson, Shelley - BE, MEd, PhD
 Sykes, Heather - BSc, PhD
 Trifonas, Peter Pericles - BE, BA, PhD
 Troper, Harold - BA, MA, PhD

Members Emeriti

Beattie, Mary - BA, BA, MA, MEd, EdD
 Beck, Clive - PhD
 Bencze, Lawrence - BEd, BSc, MSc, PhD
 Bennett, Barrie - BPHE, MEd, PhD
 Bereiter, Carl - PhD
 Cameron, Linda - BA, MEd, EdD
 Connelly, Michael - BSc, BEd, MSc, PhD
 Cumming, Alister - BA, MA, PhD
 Cummins, James - BA, PhD
 Evans, Mark - BE, BA, MA, PhD
 Feuerverger, Grace - BA, MA, PhD
 Gerin-Lajoie, Diane - BSc, MA, PhD
 Hanna, Gila - BA, MA, MEd, PhD
 Jordan, Anne - BA, MA, PhD
 Lapkin, Sharon - BA, MA, PhD
 Spada, Nina - BA, MA, PhD
 Swain, Merrill - BA, PhD
 Thiessen, Dennis - AB, MEd, DPhil
 Wallace, John - BSc, BEd, MSc, PhD

Associate Members

Allen, Guy - BA, MA, PhD
 Brant, Jennifer - PhD
 Broad, Kathy - BEd, BA, MEd, PhD (**Associate Chair, Teacher Education**)
 Brownell, Cassie - MEd, PhD
 Dubek, Michelle - PhD
 Gini-Newman, Garfield - BA, BE, MA
 Gloor, Peter Andreas - MSc, PhD
 Hidi, Suzanne - BA, MA, PhD

Lancaster, Ron - BEd, BS, MMath
 Le Pichon-Vorstman, Emmanuelle - PhD
 Marks Krpan, Cathy - BEd, MEd, EdD
 Montemurro, David - BEd, BA, MES
 Reid, Mary - BA, BEd, MEd, EdD
 Stewart Rose, Leslie - BEd, BM, MA, EdD
 Topouzova, Lilia - BA, MA, PhD
 Zingaro, Daniel - BCS, MEd, MCS

CTL: Curriculum & Pedagogy Overview

Program Description

The Curriculum & Pedagogy (C&P) program is a forum for systematic reflection on curriculum and pedagogy, viewed in the broadest sense as educational experiences and the learning and teaching 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 the practices and relationships through which teaching and learning happen in educational settings. Given the diverse academic and research interests of faculty members, the program is organized into seven constituent but optional program emphases.

The C&P program offers the following seven program emphases:

- Arts in Education
- Critical Studies in Curriculum and Pedagogy
- Digital Technologies in Education
- Indigenous Education and Decolonization
- Qualitative Methodologies
- Science, Mathematics and Technology (SMT)
- Wellbeing

PhD, MA, and MEd students enrolled in the C&P program are required to complete three courses from a list of courses affiliated with the emphasis, in order to have the emphasis noted on their transcript. Upon successful completion of the emphasis requirements and successful completion of the degree requirements, students may make a request with the C&P administrator, prior to graduation, to have the emphasis noted on the student transcript.

CTL: Curriculum & Pedagogy MA

Master of Arts

The MA degree program is designed to provide academic study and research training related to curriculum and pedagogy. 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. The MA can be taken 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 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 and pedagogy. The chief academic interests and experience, professional concerns, and career plans related to any aspect of curriculum and pedagogy should be discussed. In order to identify their research interests in their Statement of Intent, applicants should visit the [Curriculum & Pedagogy program web page](#).
- The Admissions Committee reviews this statement to determine the areas of study and/or problems of curriculum and pedagogy in which an applicant is most interested and to link the applicant to appropriate faculty advisors.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - At least 2.0 FCEs, normally CTL 1000-level courses undertaken in the Curriculum & Pedagogy program.
 - CTL 1000H *Foundations of Curriculum & Pedagogy* (0.5 FCE).
 - A [research methods course](#) (0.5 FCE) from an approved course listing.
 - Additional courses may be required of some applicants, depending on previous experience and academic qualifications.
- **Thesis.**
- Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, and thesis 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

CTL: Curriculum & Pedagogy MEd

Master of Education

The Master of Education (MEd) degree program is designed chiefly for the professional development of those who are already engaged in a career related to education, broadly defined. 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. The MEd can be taken on a full-time or part-time basis.

Note: The MEd is not a teacher certification program. Find out more about [teacher certification programs](#).

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 & Pedagogy program 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

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - At least 2.5 FCEs, normally CTL 1000-level courses undertaken in the Curriculum & Pedagogy program.
 - CTL 1000H *Foundations of Curriculum & Pedagogy* (0.5 FCE).
- Additional study may be required either within the degree program or prior to admission, depending on previous experience and academic qualifications.

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

CTL: Curriculum & Pedagogy PhD

Doctor of Philosophy

The PhD program demands a strong commitment to research. The Curriculum & Pedagogy program offers both full-time and flexible-time PhD program options. Degree requirements for both options are the same; only the length of time to completion differs (see Program Length below). Applicants must declare the option for which they wish to apply.

PhD 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.
- 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 & Pedagogy program web page](#).
 - A Statement of Intent describing their intellectual interests and concerns relevant to curriculum and pedagogy, reasons for wishing to take the program, previous qualifications and professional experiences, and articulating their research and professional interests, and future career goals
 - Two letters of reference: one academic and one professional.

Program Requirements

- **Coursework.** Students must normally complete **3.5 full-course equivalents (FCEs)** as follows:
 - At least 2.0 FCEs, normally CTL 1000-level courses.
 - CTL 1899H *C&P Doctoral Proseminar in Curriculum & Pedagogy* (0.5 FCE).
 - Students are expected to take CTL 1000H *Foundations of Curriculum & Pedagogy* (0.5 FCE) if they did not complete it at the master's level
 - Additional courses may be required of some students.
 - One [research methods course](#) (0.5 FCE) from an approved course listing.
- **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 thesis ethical review.
- Full-time PhD students must maintain full-time status throughout their program of study.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time)

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.
- 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 & Pedagogy program web page](#).
 - A Statement of Intent describing their intellectual interests and research concerns relevant to curriculum and pedagogy, reasons for wishing to take the program, previous qualifications and professional experiences, and articulating their research and professional interests, and future career goals.
 - Two letters of reference: one academic and one professional.
- 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

- **Coursework.** Students must normally complete **3.5 full-course equivalents (FCEs)**, as follows:
 - At least 2.0 FCEs, normally CTL 1000-level courses.
 - CTL 1899H *C&P Doctoral Proseminar in Curriculum & Pedagogy* (0.5 FCE).
 - Students are expected to take CTL 1000H *Foundations of Curriculum & Pedagogy* (0.5 FCE) if they did not complete it at the master's level.
 - One [research methods course](#) (0.5 FCE) from an approved course listing.
 - Additional courses may be required of some students.
- **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 thesis ethical review.
- Students must register continuously until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.

- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

8 years

Time Limit

8 years

CTL: Curriculum & Pedagogy MA, MEd, PhD Emphases

Emphasis: Arts in Education

The emphasis in Arts in Education allows students to take specialized courses in the areas of music and sound, drama and theatre, visual art, performance, and, in particular, courses that reflect social justice concerns reflected through the arts and cultural production. This emphasis will attract students interested in the arts, elementary and secondary arts specialist teachers, and community, gallery, and museum educators interested in examining arts education beyond schooling.

- Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1026H, CTL 1065H, CTL 1099H, CTL 1104H, CTL 1322H, CTL 1811H, CTL 1818H, CTL 1822H, CTL 5013H, CTL 5018H, CTL 5019H, CTL 5020H.
- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

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.

- Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - 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 1304H, CTL 1306H, CTL 1307H, CTL 1309H, CTL 1312H, CTL 1313H, CTL

1318H, CTL 1319H, CTL 1818H, CTL 1822H, CTL 3031H, CTL 3034H.

- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Digital Technologies in Education

The emphasis in Digital Technologies in Education is designed to engage educators in a critical examination of technology and its effective use in educational contexts. Drawing on research from the fields of the learning sciences, psychology, diversity studies, and information and communication technology, learners will deepen their understanding of such topics as computational thinking, gamification of learning, online knowledge communities, social media, immersive simulations, technology and assessment, mobile devices, and knowledge building. These courses will address emerging trends in the contemporary digital technologies landscape. Given the thousands of educational apps and web-based technologies available to teachers, where are we seeing potential?

- Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1602H, CTL 1603H, CTL 1606H, CTL 1608H, CTL 1609H, CTL 1923H, CTL 1926H, CTL 5015H.
- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Indigenous Education and Decolonization

The emphasis in Indigenous Education and Decolonization examines the complex and tangled histories of those on whose traditional lands OISE and U of T are situated: the Ouendat (Wyandot-Huron), Onondowahgah (Seneca-Hodenoosaunee), and the Misi-zaagiing (Mississauga-Anishinaabek) nations. This territory is subject to the *Dish With One Spoon Wampum Belt Covenant*, an agreement between the Iroquois Confederacy and the Ojibwe and allied nations to peaceably share and care for the resources around the Great Lakes.

This emphasis will provide an entry point into the knowledge systems that emerge from this particular land, with an emphasis on land itself as a teacher and a source of knowledge. The emphasis will be grounded on a decolonial pedagogy, with a commitment to anti-colonization and decolonization practices. Recognizing that this land has, and still does exist, first and foremost in relationship to Indigenous people requires a critical consciousness and acknowledgement of whose traditional lands we are now on as well as the historical and contemporary realities of those relationships. It is this understanding that forms the philosophical foundation upon which all of our courses position themselves within the emphasis.

- **Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1063H, CTL 1320H, CTL 1321H, CTL 1322H, CTL 5010H, CTL 5024H, CTL 5029H.
- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Qualitative Methodologies

The emphasis in Qualitative Methodologies will encourage a focused exploration of qualitative paradigms, approaches, and methods within and beyond the scope of schools and education. This emphasis will allow students to take introductory and specialized courses in a range of contemporary qualitative methodologies in areas such as research and participatory inquiry; arts-based research and performed ethnography; feminist and queer approaches; indigenous methodologies, anti-colonial, decolonial, post-foundational, and social justice research. These courses will address the need for students to deepen their understanding, application, and specialization in qualitative methodologies in education. Students will also explore how qualitative methodologies are applied to non-formal education contexts such as social justice pedagogies.

- **Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1018H, CTL 1041H, CTL 1049H, CTL 1062H, CTL 1063H, CTL 1099H, CTL 1211H, CTL 1306H, CTL 1322H, CTL 1809H, CTL 1822H, CTL 5019H, CTL 5029H, CTL 5030H.
- Upon successful completion of the Emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Science, Mathematics and Technology (SMT)

The emphasis in SMT is dedicated to exploring theory, practice, and contemporary issues pertaining to SMT education in diverse settings and contexts. A vibrant community of scholars and graduate students thrive on collegiality, intellectual debate, critical analyses, and inquiry. Drawing on research and practice, students will explore and critique innovative SMT education while supporting research, curriculum development, and teaching. With strong connections to the SMT Centre and the collaborative specialization in Engineering Education, students will engage with topics such as science, technology engineering, and mathematics (STEM); mathematics pedagogy; equity; inclusion; diversity; activism; and social and environmental justice.

- **Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1116H, CTL 1119H, CTL 1120H, CTL 1202H, CTL 1206H, CTL 1207H, CTL 1209H, CTL 1212H, CTL 1214H, CTL 1215H, CTL 1216H, CTL 1217H, CTL 1218H, CTL 1219H, CTL 1221H, CTL 1222H, CTL 1223H, CTL 1606H, CTL 1608H, CTL 1609H, CTL 1841H.
- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the C&P Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

Emphasis: Wellbeing

The emphasis in Wellbeing inquires into the nature of wellbeing as well as providing learning environments that support student wholeness: mental, physical, and spiritual. Research suggests that people who exhibit characteristics of wellbeing live longer and contribute more to society (Ricard, 2003). In July 2011, the United Nations passed a resolution recommending that member states give greater attention to happiness and wellbeing in their economic and social development policies. Wellbeing is a priority for the Ontario Ministry of Education and OISE.

Faculty in this emphasis offer courses that explore and support student wellbeing in a variety of ways. Holistic and embodied approaches to learning are employed to engage the whole person. More specifically, these approaches involve various forms of meditation, mindfulness practice, narrative/biography, working in a collaborative and supportive environment, body work, and conscious use of technology. Mental health is increasingly identified as an important issue today, and approaches to address this concern are also part of the emphasis. These approaches are offered within the context of sustainability and ethical issues that can arise in the pursuit of wellbeing.

- **Coursework.** From the following course list, MA, MEd, and PhD students must successfully complete **1.5 full-course equivalents (FCEs)**, which are counted towards the total FCEs required for the student's degree program:
 - CTL 1016H, CTL 1027H, CTL 1106H, CTL 1110H, CTL 1221H, CTL 1319H, CTL 1331H, CTL 1424H, CTL 1817H, CTL 1825H, CTL 3037H, CTL 5011H, CTL 5042H, CTL 5045H.
- Upon successful completion of the emphasis requirements and the successful completion of the degree requirements, students may make a request to the CSTD Program Administrator to have the emphasis noted on the student transcript. This request must be made before graduation. A course can only be applied to the requirements of a single emphasis.

CTL: Curriculum & Pedagogy MA, MEd, PhD Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

Master's Level

CTL 1000H	Les fondements du curriculum et de la pédagogie
CTL 1000H	Foundations of Curriculum & Pedagogy
CTL 1001H	Values and Schooling
CTL 1005H	Language, Literacy, and the School Curriculum
CTL 1011H	Anti-Oppression Education in School Settings
CTL 1011H	L'éducation pour l'anti-oppression en milieu scolaire
CTL 1016H	Cooperative Learning Research and Practice
CTL 1018H	Introduction to Qualitative Inquiry in Curriculum, Teaching, and Learning
CTL 1023H	Technology and Education: Critical Perspectives on Theory and Practice
CTL 1024H	Poststructuralism and Education
CTL 1026H	Performed Ethnography
CTL 1027H	Facilitating Reflective Professional Development
CTL 1029H	From Student to Teacher: Professional Induction
CTL 1031H	Language, Culture, and Identity: Using the Literary Text in Teacher Development
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 1040H	Fundamentals of Program Planning and Evaluation
CTL 1041H	Research Methods In Education
CTL 1042H	Instrument Development in Education
CTL 1043H	Research Issues in Alternative Assessments
CTL 1046H	Training Evaluation
CTL 1047H	Course Self-Assessment
CTL 1048H	Qualitative Methodology: Challenges and Innovations
CTL 1049H	Critical Practitioner Research in Education
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	Gender, Sexuality, and Schooling
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 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 1121H	Foundations of Wellness Through a Phenomenology of Practice (exclusion: CTL 5045H)

CTL 1122H	Exploring the Praxis of Environmental and Sustainability Education (exclusion: CTL 5027H)
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	Education for Human Goals Local and Global: How's Science Education Helping?
CTL 1222H	Environmental Studies in Science, Mathematics, and Technology Education
CTL 1223H	Activist Science and Technology Education
CTL 1224H	Curriculum Issues in Science Education (exclusion: CTL 1799H)
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 1320H	Introduction to Aboriginal Land-Centered Education: Historical and Contemporary Perspectives
CTL 1321H	Aboriginal Civilization: Language, Culture, and Identity
CTL 1322H	Literacies of Land: Narrative, Storying, and Literature
CTL 1325H	Citizenship Education, Pedagogy, and School Communities

CTL 1330H	Education and Peacebuilding in Conflict Zones: International Comparative Perspectives
CTL 1331H	Land-Centred Approaches to Research and Community Engagement
CTL 1332H	Introduction to Decolonization in Education (exclusion: CTL 5010H)
CTL 1400H	Classroom Adaptations and Instructional Strategies
CTL 1402H	Adaptive Instruction in Inclusive Classrooms
CTL 1403H	Special Education and Social Representation of Difference
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 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 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 Environments
CTL 1609H	Educational Applications of Computer-Mediated Communication
CTL 1611H	Computer-Mediated Distance Education
CTL 1612H	The Virtual Library (Non-Credit)
CTL 1797H	Practicum in Curriculum & Pedagogy: Master's Level
CTL 1798H	Individual Reading and Research in Curriculum & Pedagogy: Master's Level
CTL 5010H to CTL 5037H	Special Topics in Curriculum: Master's Level

Doctoral Level

CTL 1808H	Curriculum Innovation in Teacher Education
CTL 1809H	Narrative and Story in Research and Professional Practice
CTL 1811H	Writing Research/Research Writing: Moving from Idea to Reality
CTL 1812H	Professional Ethics of Teaching and Schooling
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 1844H	Seminar in Evaluation Problems (prerequisite: CTL 2803H, CTL 1843H, or equivalent)
CTL 1899H	C&P Doctoral Proseminar in Curriculum & Pedagogy
CTL 1923H	Mobile and Ubiquitous Computing in Education
CTL 1926H	Knowledge Media and Learning
CTL 1998H,Y	Individual Reading and Research in Curriculum & Pedagogy: Doctoral Level
CTL 6000H	Special Topics in C&P: Doctoral Level

CTL: Language and Literacies Education Overview

Program Description

The Language and Literacies Education program investigates questions about the relationships of literacies in language and language in literacies across communities, societies, instructional environments, and informal learning settings.

Language and Literacies Education courses address current issues in the study of applied linguistics and literacies, such as:

- The learning, teaching, and use of Indigenous, official, international/heritage, and sign languages and literacies;
- Curriculum, instruction, and assessment related to the development of first and additional language and K-12 literacy skills;
- The development of bilingual, multilingual, and translinguistic abilities;
- Language and literacy education policies and planning;
- Pedagogy oriented on multiliteracies development, including early literacy and adolescent reading, writing and oral language development, and children's literature across the curriculum;
- Social justice issues related to plurilingualism and cultural and linguistic diversity; and
- Pedagogical implications of the fact that language and literacy are infused into all aspects of learning in contexts characterized by linguistic diversity.

CTL: Language and Literacies Education MA

Master of Arts

Applicants expecting to pursue a doctorate in the future are advised to enrol in the MA (rather than the MEd) program in Language and Literacies Education (LLE). The MA program can be taken on a full-time or part-time basis.

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.
- All applicants must 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

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** or eight half courses as follows.
 - A minimum of 2.0 FCEs in CTL 3000-level courses within the LLE program including CTL 3001H *Research Colloquium in Language and Literacies Education* (0.5 FCE). Part-time students are expected to be available to take CTL 3001H during daytime hours (usually Friday afternoons).
 - A research methods course relevant to the topic of the thesis (0.5 FCE). Any of the following courses can fulfil this requirement: CTL 1018H, CTL 1041H, CTL 1306H, CTL 3033H, CTL 3807H, CTL 3810H, APD 1296H, APD 3202H, JOI 1287H, JOI 1288H, JOI 3228H, 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.
- **Thesis.**
- Students are responsible for meeting deadlines to complete their course requirements, thesis committee formation, and thesis 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

CTL: Language and Literacies Education MEd

Master of Education

The Master of Education (MEd) degree program can be taken on a full-time or part-time basis.

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 goals.

Program Requirements

- **Coursework.** The MEd program consists of **5.0 full-course equivalents (FCEs)** including:
 - A minimum of 2.5 FCEs in CTL 3000-level courses.

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

Field: Language Teaching

The field in Language Teaching includes a more structured focus on language teaching practice and integrates an engagement with scholarly research in Language and Literacies Education (LLE), with a commitment to excellence in teaching to support graduates' careers as language teachers. Students pursuing this field will graduate with: (a) a solid theoretical and intellectual grounding in LLE research; (b) a course-based, practitioner focus on language teaching; and (c) the opportunity to gain practical experience in a language-education context. This field is only available on a full-time basis.

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 pursue this field, previous qualifications and professional experiences, particular research or professional interests, and future goals.

Program Requirements

- **Coursework.** The MEd program consists of **5.0 full-course equivalents (FCEs)** as follows.
 - All students in the field must take the following courses (1.0 FCE):
 - CTL 3002H *Second Language Teaching Methodologies*
 - CTL 3010H *Second-Language Learning*
 - Students must then choose any three from the following courses (1.5 FCEs):
 - CTL 3000H *Foundations of Bilingual and Multicultural Education*
 - CTL 3003H *Planning and Organizing the Second Language Curriculum*
 - CTL 3013H *Language Assessment*
 - CTL 3020H *Writing in a Second Language*
 - CTL 3101H *Language Awareness for Language Educators*
 - CTL 3797H *Practicum in Language and Literacies Education: Master's Level* (recommended)
 - CTL 3808H *The Role of Instruction in Second Language Learning*
 - CTL XXXXH *English for Academic Purposes (EAP) for Language Educators* [pending approval]
 - The remaining 2.5 FCEs can be elective courses taken towards the requirements of a collaborative specialization if applicable, or could be courses offered within the Department of Curriculum, Teaching and Learning or other departments at OISE or the University of Toronto.

Program Length

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

Time Limit

3 years full-time

CTL: Language and Literacies Education PhD

Doctor of Philosophy

Students participating in the PhD program must have a strong commitment to research. The Language and Literacies Education (LLE) program offers both full-time and flexible-time PhD options. Degree requirements for the full-time and flexible-time options are the same. Applicants must declare their preferred option when applying.

PhD 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.
- 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.
- Applicants must 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

- **Coursework.** Students must complete **3.5 to 4.0 full-course equivalents (FCEs)** depending on previous experience and academic qualifications, as follows:
 - A minimum of 2.0 FCEs within the LLE program, including CTL 3001H *Research Colloquium in Language and Literacies Education* (0.5 FCE) and CTL 3899H *Proseminar in Language and Literacies Education* (0.5 FCE), if not previously taken at the master's level. If CTL 3001H or CTL 3899H was taken at the master's level, students are not permitted to take it again and should substitute it with another LLE program course (0.5 FCE).
 - A research methods course relevant to the topic of the thesis (0.5 FCE). Any of the following courses can fulfil this requirement: CTL 1018H, CTL 1041H, CTL 1306H, CTL 3033H, CTL 3807H, CTL 3810H, APD 1296H, APD 3202H, JOI 1287H, JOI 1288H, JOI 3228H, or SJE 1905H.
 - A student wishing to propose an alternative course to fulfil one of the LLE course requirements must obtain the approval of the LLE program coordinator and either their faculty advisor or thesis supervisor.
- [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 thesis ethical review.
- Full-time PhD students must maintain full-time status throughout their program of study.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time)

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.
- 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.
- Applicants must 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.
- Applicants should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study.

Program Requirements

- **Coursework.** Students must complete **3.5 to 4.0 full-course equivalents (FCEs)** depending on previous experience and academic qualifications, as follows:
 - A minimum of 2.0 FCEs within the LLE program, including CTL 3001H *Research Colloquium in Language and Literacies Education* (0.5 FCE), if not previously taken at the master's level. If CTL 3001H was taken at the master's level, students are not permitted to take it again and should substitute it with another LLE program course (0.5 FCE).
 - CTL 3899H *Proseminar in Language and Literacies Education* (0.5 FCE), if not previously taken at the master's level. If CTL 3899H was taken at the master's level, students are not permitted to take it again and

should substitute it with another LLE program course (0.5 FCE).

- A research methods course relevant to the topic of the thesis (0.5 FCE). Any of the following courses can fulfil this requirement: CTL 1018H, CTL 1041H, CTL 1306H, CTL 3033H, CTL 3807H, CTL 3810H, APD 1296H, APD 3202H, JOI 1287H, JOI 1288H, JOI 3228H, or SJE 1905H.
- 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 their faculty advisor or thesis supervisor.
- [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 thesis ethical review.
- Students must register continuously until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

7 years

Time Limit

8 years

CTL: Language and Literacies Education MA, MEd, PhD Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

Master's Level

APD 1251H	Reading in a Second Language
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 3003H	Planning and Organizing the Second Language Curriculum
CTL 3004H	Language Awareness and its Role in Teacher Development
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
CTL 3013H	Language Assessment
CTL 3015H	Language and Literacies Education in Multilingual Contexts
CTL 3018H	Language and Planning and Policy
CTL 3018H	Politique et aménagement linguistique
CTL 3020H	Writing in a Second Language
CTL 3024H	Language Teacher Education
CTL 3025H	Educational Sociolinguistics
CTL 3026H	Pragmatics in Language Education
CTL 3028H	Literacy 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 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 3899H	Proseminar in Language and Literacies Education Program: Master's Level
CTL 5300H	Special Topics in Language and Literacies Education Program: Master's Level
CTL XXXXH	English for Academic Purposes (EAP) for Language Educators [pending approval]
CRE 1001H	Séminaire d'études : Éducation, francophonies et diversité
JTE 1952H	Language, Culture, and Education

Doctoral Level

CTL 3805H	Multilingualism and Plurilingualism
CTL 3806H	Sociocultural Theory and Second Language Learning
CTL 3807H	Second Language Education Research Methods [RM]
CTL 3808H	The Role of Instruction in Second Language Learning
CTL 3810H	Second Language Classroom Research Methods
CTL 3899H	Proseminar in Language and Literacies Education
CTL 3998H	Individual Reading and Research in Language and Literacies Education: Doctoral Level

CTL 6300H	Special Topics in Language and Literacies Education Program: Doctoral Level
-----------	---

CTL: Teaching MT

Master of Teaching

Program Description

This program involves two years of full-time study leading to a Master of Teaching (MT) degree. Upon successful completion of this program, students will be recommended to the Ontario College of Teachers for an Ontario Teachers' Certificate of Qualification, which qualifies them to teach in either the Primary and Junior (P/J) divisions, the Junior and Intermediate (J/I) divisions, or the Intermediate and Senior (I/S) divisions of Ontario schools.

The MT program offers students a unique educational opportunity, which 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 and educational law; equity diversity and inclusion; Indigenous education; educational technology; instructional planning; instructional design; and learning theory. Students enjoy four practice teaching experiences in which they develop their skills as teachers and extend the theoretical and practical knowledge they acquired in the academic portion of the program.

The program includes: formal coursework, teaching and research seminars, and practice teaching.

The 20-month program is normally completed on a full-time basis in 5 terms:

- Terms 1 and 2 (Fall and Winter sessions [September to April])
- Term 3 (Summer session [May to August])
- Terms 4 and 5 (Fall and Winter sessions [September to April]).

Registration in Terms 4 and 5 is contingent upon successful completion of all courses in Terms 1, 2, and 3 and two successful placements.

Applicants must select one of the following teaching divisions:

- Primary/Junior (junior kindergarten to grade 6)
- Junior/Intermediate (grades 4 to 10)
- Intermediate/Senior (grades 7 to 12)

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 division (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 learners. With reference to these experiences, applicants should identify insights gained about teaching and learning, and explain how, based on these insights, they might contribute to the education of students in today's schools. In their résumé 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. For details about the Statement of Intent, visit the [MT program website](#).

- **Applicants to the Junior/Intermediate (J/I) division within the Elementary field** must select **one subject specialization, known as "teachable" or "teaching subject."** Before applying to the J/I division, applicants must ensure they have the required number of prerequisite courses for the teaching subject. The prerequisites for teaching subjects in the J/I division are a minimum of 3.0 full-course equivalents (FCEs) for the teaching subject from a recognized university. Note that the prerequisite for French (Second Language) is 5.0 FCEs. For more details about subject specializations and their prerequisites, visit the [MT program website](#).
- **Applicants to the Intermediate/Senior (I/S) division within the Secondary field** must have **two subject specializations, known as "teachable" or "teaching subject"**, of which one subject is selected as their **first** subject specialization and one as their **second** subject specialization. Before applying to the I/S division, applicants must ensure they have the required number of prerequisite courses for the teaching subject. The prerequisites are a minimum of 6.0 FCEs in the first teaching subject and a minimum of 3.0 FCEs in the second teaching subject from a recognized university. Note that the prerequisites for the teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General are 6.0 FCEs regardless of whether these teaching subjects are first or second subject specializations. For more details about subject specializations and their prerequisites, visit the [MT program website](#).
- Not all eligible applicants are guaranteed admission.
- A police record check is required in a practicum setting in both Years 1 and 2 of the program.

Program Requirements

- **Coursework.** Students must complete **11.0 full-course equivalents (FCEs)** consisting of:
 - 8.0 FCEs: 16 (or equivalent) compulsory core courses; Primary/Junior and Junior/Intermediate divisions include quarter-credit courses.
 - 1.0 FCE: 2 elective courses.
 - 2.0 FCEs: 4 practice teaching courses: CTL 7080H, CTL 7081H, CTL 7082H, and CTL 7083H. There is one placement per course, totalling four teaching placements.
- On successful completion, students receive the MT degree and a recommendation to the Ontario College of Teachers for an Ontario Teachers' Certificate of Qualification.
- Normally, advanced standing is not granted in this program.
- Students registered in the Primary/Junior and Junior/Intermediate divisions must successfully complete the non-credit seminar course CTL 7100H *Mathematics Concepts for Elementary Teacher Candidates* (0.0 FCE), also known as MathPlus, during their first session of registration.

Program Length

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

Time Limit

3 years full-time

CTL: Teaching MT Courses

Primary/Junior Division (Junior Kindergarten to Grade 6)

Core Courses

CTL 7000H	Curriculum and Teaching in Literacy
CTL 7001H	Educational Professionalism, Ethics, and Law
CTL 7002H	Curriculum and Teaching in Mathematics
CTL 7006H	Educational Research 1
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7009H	Anti-Discriminatory Education
CTL 7011H	Child and Adolescent Development and Learning
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7015H	Educational Research 2
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 7018H	Curriculum and Teaching in Science and Environmental Education
CTL 7019H	Supporting English Language Learners
CTL 7072H	Curriculum and Teaching in Social Studies and Aboriginal Education
CTL 7080H	Practice Teaching Year 1 (Part 1) (Credit/No Credit)
CTL 7081H	Practice Teaching Year 1 (Part 2) (Credit/No Credit)
CTL 7082H	Practice Teaching Year 2 (Part 1) (Credit/No Credit)
CTL 7083H	Practice Teaching Year 2 (Part 2) (Credit/No Credit)
CTL 7084H	Issues in Numeracy (0.25 FCE)
CTL 7085H	Issues in Literacy (0.25 FCE)
CTL 7086H	Curriculum and Teaching in Music and Dance (0.25 FCE)
CTL 7087H	Curriculum and Teaching in Drama and Dance (0.25 FCE)
CTL 7088H	Curriculum and Teaching in Visual Arts (0.25 FCE)
CTL 7089H	Curriculum and Teaching in Physical Education (0.25 FCE)
CTL 7100H	Mathematics Concepts for Elementary Teacher Candidates* (Non-credit)

*Students registered in the Primary/Junior division must successfully complete the non-credit seminar course CTL 7100H *Mathematics Concepts for Elementary Teacher Candidates*, also known as MathPlus, during their first session of registration.

Elective Courses

Plus 1.0 FCE	Two elective courses
--------------	----------------------

Junior/Intermediate Division (Grade 4 to Grade 10)

Core Courses

CTL 7000H	Curriculum and Teaching in Literacy
CTL 7001H	Educational Professionalism, Ethics, and Law
CTL 7002H	Curriculum and Teaching in Mathematics
CTL 7006H	Educational Research 1
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7009H	Anti-Discriminatory Education
CTL 7011H	Child and Adolescent Development and Learning
CTL 7013H	Arts in Education
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7015H	Educational Research 2
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 7018H	Curriculum and Teaching in Science and Environmental Education
CTL 7019H	Supporting English Language Learners
CTL 7072H	Curriculum and Teaching in Social Studies and Aboriginal Education
CTL 7080H	Practice Teaching Year 1 (Part 1) (Credit/No Credit)
CTL 7081H	Practice Teaching Year 1 (Part 2) (Credit/No Credit)
CTL 7082H	Practice Teaching Year 2 (Part 1) (Credit/No Credit)
CTL 7083H	Practice Teaching Year 2 (Part 2) (Credit/No Credit)
CTL 7084H	Issues in Numeracy (0.25 FCE)
CTL 7085H	Issues in Literacy (0.25 FCE)
CTL 7100H	Mathematics Concepts for Elementary Teacher Candidates* (Non-credit)

*Students registered in the Junior/Intermediate division must successfully complete the non-credit seminar course CTL 7100H *Mathematics Concepts for Elementary Teacher Candidates*, also known as MathPlus, during their first session of registration.

Elective Courses

Plus 0.5 FCE	One subject specialization course selected from CTL 7050H to CTL 7060H
Plus 1.0 FCE	Two elective courses

For Junior/Intermediate certification, students take **one subject specialization course** in Year 2 (the list of subject specializations are subject to change):

Junior/Intermediate Subject Specialization Courses

CTL 7050H	Intermediate Teaching Subject — English (First Language)
CTL 7051H	Intermediate Teaching Subject — French (Second Language)
CTL 7052H	Intermediate Teaching Subject — Geography
CTL 7053H	Intermediate Teaching Subject — Health and Physical Education
CTL 7054H	Intermediate Teaching Subject — History
CTL 7055H	Intermediate Teaching Subject — Mathematics
CTL 7056H	Intermediate Teaching Subject — Music-Instrumental
CTL 7057H	Intermediate Teaching Subject — Music-Vocal
CTL 7058H	Intermediate Teaching Subject — Science-General
CTL 7059H	Intermediate Teaching Subject — Visual Arts
CTL 7060H	Intermediate Teaching Subject — Drama

Prerequisites

Before applying to the Junior/Intermediate division, applicants must ensure they have the required number of prerequisite courses for the teaching subjects. See the admission requirements above for details or visit the [MT program website](#) for subject specializations and their required prerequisites.

Intermediate/Senior Division (Grade 7 to Grade 12)

Core Courses

CTL 7006H	Educational Research 1
CTL 7007H	Authentic Assessment
CTL 7008H	Introduction to Special Education and Mental Health
CTL 7009H	Anti-Discriminatory Education
CTL 7011H	Child and Adolescent Development and Learning
CTL 7014H	Fundamentals of Teaching and Learning
CTL 7015H	Educational Research 2
CTL 7016H	Integrating Technology into the Classroom: Issues and Activities
CTL 7019H	Supporting English Language Learners
CTL 7070H	Issues in Secondary Education 2
CTL 7073H	Indigenous Experiences of Racism and Settler Colonialism in Canada: An Introduction
CTL 7074H	Issues in Educational Law, Policy, and Ethics
CTL 7080H	Practice Teaching Year 1 (Part 1) (Credit/No Credit)
CTL 7081H	Practice Teaching Year 1 (Part 2) (Credit/No Credit)
CTL 7082H	Practice Teaching Year 2 (Part 1) (Credit/No Credit)
CTL 7083H	Practice Teaching Year 2 (Part 2) (Credit/No Credit)

Elective Courses

Plus 1.0 FCE	First subject specialization course selected from CTL 7020Y to CTL 7041Y; see full course list below
Plus 1.0 FCE	Second subject specialization course selected from CTL 7020Y to CTL 7041Y; see full course list below
Plus 1.0 FCE	Two elective courses

Catholic boards as a prerequisite for a job interview and as a condition of employment. Offered in Year 1 of the MT program, this course is in addition to the degree's program requirements.

Intermediate/Senior Specialization Courses

The Intermediate/Senior students must have two subject specializations. Students must select one subject specialization from the following list as their **first** subject specialization and one as their **second** subject specialization (the list of subject specializations is subject to change).

CTL 7020Y	Curriculum and Teaching in English
CTL 7021Y	Curriculum and Teaching in History
CTL 7022Y	Curriculum and Teaching in Mathematics
CTL 7023Y	Curriculum and Teaching in Science: Biology
CTL 7024Y	Curriculum and Teaching in Science: Chemistry
CTL 7025Y	Curriculum and Teaching in Science: Physics
CTL 7026Y	Curriculum and Teaching in Science: General
CTL 7027Y	Curriculum and Teaching in Social Science: General
CTL 7028Y	Curriculum and Teaching in Geography . Intermediate/Senior
CTL 7029Y	Curriculum and Teaching in Music: Instrumental
CTL 7030Y	Curriculum and Teaching in Music: Vocal
CTL 7031Y	Curriculum and Teaching in Health and Physical Education
CTL 7032Y	Curriculum and Teaching in Visual Arts — Intermediate/Secondary
CTL 7033Y	Curriculum and Teaching in Dramatic Arts — Intermediate/Secondary
CTL 7034Y	Curriculum and Teaching in French as a Second Language — Intermediate/Secondary
CTL 7035Y	Curriculum and Teaching in Business Studies — General
CTL 7036Y	Curriculum and Teaching in Business Studies: Accounting — Intermediate/Secondary
CTL 7041Y	Curriculum and Teaching in Religious Education

Prerequisites

Before applying to the Intermediate/Senior division, applicants must ensure that they have the required number of prerequisite courses for the teaching subjects. See the admission requirements above for details or visit the [MT program website](#) for teaching subject specializations and their prerequisites.

Religious Education

All MT students interested in teaching in the Ontario Catholic School system can choose to take the [Teaching in Ontario's Catholic Schools course](#) through the Continuing and Professional Learning office. This course is required by the

Dentistry

Dentistry: Introduction

Faculty Affiliation

Dentistry

Degree Programs

Dentistry

MSc and PhD

- Fields:
 - Dental Anaesthesia;
 - Dental Public Health;
 - Endodontics;
 - Oral and Maxillofacial Radiology;
 - Oral and Maxillofacial Surgery;
 - Oral and Maxillofacial Pathology and/or Oral Medicine;
 - Orthodontics and Dentofacial Orthopedics;
 - Paediatric Dentistry;
 - Periodontology;
 - Prosthodontics

Collaborative Specializations

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

- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Dentistry, MSc, PhD
- [Biomedical Engineering](#)
 - Dentistry, MSc, PhD
- [Cardiovascular Sciences](#)
 - Dentistry, MSc, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Dentistry, MSc (thesis only), PhD
- [Musculoskeletal Sciences](#)
 - Dentistry, MSc, PhD
- [Neuroscience](#)
 - Dentistry, MSc, PhD
- [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:

- applicants who have a degree in dentistry and who are pursuing research training and advanced clinical education in one of the dental specialties; and
- 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) 864-8114

Fax: (416) 979-4944

Faculty of Dentistry, Student Services Office
University of Toronto
Room 104, 124 Edward Street
Toronto, Ontario M5G 1G6
Canada

Dentistry: Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
Aubin, Jane - BSc, PhD
Azarpazhooh, Amir - MSc, DDS, PhD
Bozec, Laurent - BSc, PhD
Bressmann, Tim - MPH, PhD
Casas, Michael - MSc, DDS
Casper, Robert - MD
Cvitkovitch, Dennis - BSc, MSc, PhD
Davies, John - BSc, BDS, PhD, DSc
de Souza, Grace M. - MS, DDS, PhD
Dempster, Laura - BScD, MSc, PhD
Deporter, Douglas - DipPerio, DDS, PhD
Dostrovsky, Jonathan - BSc, MSc, PhD
El-Mowafy, Omar - BDS, PhD
Finer, Yoav - MSc, MSc, DMD, PhD
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, Boris - PhD
Kenny, David - BSc, DDS
Kishen, Anil - BDS, MDS, PhD (**Coordinator, Graduate Studies**)
Lam, Ernest - BSc, MSc, DMD, PhD (**Associate Dean, Graduate Education**)
Lawrence, Herenia - MSc, DDS, PhD
Levesque, Celine - BSc, MSc, PhD
Manolson, Morris - BS, PhD
McCulloch, Christopher - BSc, DDS, PhD
Moriarty, Tara - BA, BSc, PhD
Prakki, Anuradha - MSc, DDS, PhD
Quinonez, Carlos R. - MSc, DMD, PhD
Santerre, Paul - BSc, MSc, PhD
Seltzer, Ze'ev - DMD, BMedSc
Sessle, Barry - BS, MDS, BDS, PhD
Seth, Arun - MS, PhD
Sherman, Philip - MD
Simmons, Craig - BSc, MSc, PhD
Sone, Eli - BSc, MS, PhD
Tenenbaum, Howard - DipPerio, DDS, PhD

Members Emeriti

Dao, Thuan - MSc, DMD, PhD
 Fenton, Aaron - DipPerio, MS, DDS
 Liebgott, Bernard - DDS, MScD, PhD
 Mayhall, John - BA, MA, AM, DDS, PhD
 McComb, Dorothy - BDS, MScD
 Mock, David - DDS, PhD, FRCDC
 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

Andrews, Paul - BSc, MSc, DDS
 Barrett, Edward - BSc, MSc, DDS
 Barzilay, Issac - MS, DDS
 Basrani, Bettina - PhD
 Bradley, Grace - MSc, DDS
 Caminiti, Marco - BSc, MEd, DDS
 Cioffi, Iacopo - DDS, PhD
 El-Badrawy, Wafa - MSc, BDS
 Goldberg, Michael - DipPerio, BSc, MSc, DDS
 Holmes, Howard - MSc, DDS, DDS
 Iakounine, Alexander - MSc, ScD
 Iglar, Karl - MD
 Judd, Peter - BSc, MS, DDS
 Kulkarni, Gajanan - LLB, MSc, BDS, PhD
 Lai, Jim Yuan - BSc, MSc, DMD, FRCDC
 Laporte, Audrey - BA, MA, PhD
 Leong, Iona - BSc, MSc, BDS
 Magalhaes, Marco - MSc, BDS, PhD
 Mendes, Vanessa C. - MSc, PhD
 Metaxas, Angelos - DipOrH, MSc, DDS, DDS
 Nainar, Hashim - BDS, MScD
 Pharoah, Michael - BSc, MSc, DDS
 Posluns, James - DipOrH, BSc, MEd, DDS
 Shrestha, Annie - MSc, BDS, PhD
 Suri, Sunjay - BDS, MDS
 Sutherland, Susan - BScN, MSc, DDS
 Tam, Laura - BSc, MSc, DDS
 Thompson, Bryan - DipOrH, DDS

Dentistry: Dentistry MSc

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 (3.3 out of 4.0 grade point average [GPA]) in the final year from a recognized university.

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 an MSc 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 (3.3 out of 4.0 GPA) 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 (3.3 out of 4.0 GPA) 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

Dentistry: Dentistry PhD

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 (3.7 out of 4.0 GPA) 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 BSc degree in a discipline appropriate to the intended field of doctoral study 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, Graduate Education, 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, Graduate Education, 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 or an equivalent degree with at least an A- standing (3.7 out of 4.0 GPA) 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 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, Graduate Education, 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, Graduate Education 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 to challenge dental specialty certification examinations in Canada and the United States. 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 DDS degree or an equivalent degree, and an MSc degree, both from a recognized university. 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, Graduate Education, 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* and DEN 1010H *Research Ethics*, 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 after 12 months and within 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

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

Dentistry: Dentistry MSc, PhD Courses

Not all courses are offered every year. The Faculty of Dentistry should be consulted each session as to course offerings. Required courses vary by specialty. Please contact the [Graduate Department](#) for details.

Core Courses

DEN 1001Y ⁰	Seminars in Oral Health Sciences (Credit/No Credit)
DEN 1010H	Research Ethics (Credit/No Credit)
DEN 1015H	Introduction to Biostatistics
DEN 1100Y ⁰	Seminars in Oral Health Sciences (Credit/No Credit)

⁰ Course that may continue over a program. Credit is given when the course is completed.

General Courses

DEN 1014H	Clinical Epidemiology and Evidence-Based Care (co-requisite: DEN 1015H)
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 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 1008H	Cone Beam CT Imaging (Credit/No Credit) (prerequisite: DEN 1007H)
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: Restorative Dentistry
DEN 1043Y	Prosthodontics III: Patients With the Partially Edentulous Mouth and Advanced Prosthodontic Care
DEN 1044Y	Prosthodontics IV: Patients With the Fully Edentulous Mouth and Advanced Prosthodontic Care
DEN 1045Y	Prosthodontics V: Critical Appraisal of the Literature
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 1055H	Basic Principles of Dental Anaesthesia
DEN 1056Y	Basic Concepts in Clinical Medicine
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 2001Y	Orthodontics 1: Advanced Orthodontic Diagnosis and Treatment Planning
DEN 2002Y	Orthodontics 2: Biomechanics Orthodontic Technique and Practice Administration

DEN 2003Y	Orthodontics 3: Orthodontic Technique and Clinical Practice
DEN 2004Y	Orthodontics 4: Interceptive Orthodontics
DEN 2005Y	Surgical Orthodontics
DEN 2006Y	Facial Growth and Facial Analysis
DEN 2007Y	Craniofacial Anomalies
DEN 2008Y	Craniofacial Anatomy and Osteology
DEN 2009H	Classic Theories of Craniofacial Growth
DEN 2010H	Tissue Reaction to Orthodontic and Orthopedic Forces
DEN 2011Y	Craniofacial Morphology and Development
DEN 3001Y	Oral and Maxillofacial Surgery 1: The Physiologic Basis of Disease
DEN 3002Y	Oral and Maxillofacial Surgery 2: Principles and Practice of Oral and Maxillofacial Surgery
DEN 3003Y	Oral and Maxillofacial Surgery 3: Evidence-Based Literature Reviews in Oral and Maxillofacial Surgery
DEN 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: Therapy and Trauma
DEN 4008Y	Paediatric Orthodontics
DEN 4009Y	Paediatrics
DEN 4010Y	Care of Patients with Special Needs and Applied Paediatric Dentistry
DEN 4011Y	Conscious Sedation and Anaesthesia in Paediatric Dentistry
DEN 4012Y	Clinical Paediatric Dentistry I (Credit/No Credit; co-requisite: DEN 1090H)
DEN 4013Y	Clinical Paediatric Dentistry II (Credit/No Credit; co-requisite: DEN 4012Y)
DEN 4014Y	Clinical Paediatric Dentistry III (Credit/No Credit; co-requisite: DEN 4013Y)
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, or credit is given when the course is completed.

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

Drama, Theatre and Performance Studies

Drama, Theatre and Performance Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Drama, Theatre and Performance Studies

MA and PhD

Collaborative Specializations

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

- [Diaspora and Transnational Studies](#)
 - Drama, Theatre and Performance Studies, MA, PhD
- [Jewish Studies](#)
 - Drama, Theatre and Performance Studies, MA, PhD
- [Knowledge Media Design](#)
 - Drama, Theatre and Performance Studies, MA, PhD
- [Sexual Diversity Studies](#)
 - Drama, Theatre and Performance Studies, MA, PhD
- [South Asian Studies](#)
 - Drama, Theatre and Performance Studies, MA, PhD
- [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 dramaturgy, theatre history, and theory of drama. 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 also take courses in drama, theatre, and performance from other departments, centres, and institutes across the University. Graduate students build on the 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.

For more information on application details, courses and faculty members, visit the [departmental website](#).

Contact and Address

Web: www.cdtps.utoronto.ca
 General email: graduate.drama@utoronto.ca
 Associate Director of Graduate Studies:
gc.graddrama@utoronto.ca
 Telephone: (416) 978-7980

Centre for Drama, Theatre and Performance Studies
 University of Toronto
 Koffler Student Services Centre
 Room 325, 214 College Street
 Toronto, Ontario M5T 2Z9
 Canada

Drama, Theatre and Performance Studies: Graduate Faculty

Full Members

Ackerman, Alan - 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
 Eisenbichler, Konrad - BA, MA, PhD
 Esonwanne, Uzoma - BA, MA, PhD
 Fan, Xing - PhD (**Associate Director**)
 Freeman, Barry - BA, MA, PhD
 Gallagher, Kathleen Marie - PhD
 Johnson, Stephen - BA, MA, PhD
 Keil, Charlie - BA, MA, PhD
 Kleber, Pia - BA, MA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Legge, Elizabeth MM - BA, BA, MA, PhD
 Lopez, Jeremy - BA, MA, DPhil
 Michelucci, Pascal - BA, MA, PhD
 Most, Andrea - BA, MA, PhD
 Pietropaolo, Domenico - BSc, MA, PhD
 Quayson, Ato - BA, PhD
 Revermann, Martin - PhD
 Ross, Jill - BA, MA, PhD
 Rubright, Marjorie - AB, MA, DLitt
 Sammond, Nicholas - BA, MA, PhD
 Schotzko, T. Nikki Cesare - PhD
 Somigli, Luca - PhD
 Sperdakos, Paula - BA, MA, PhD
 Syme, Holger Schott - BA, AM, PhD
 Trojanowska, Tamara - MA, PhD (**Director**)

Associate Members

Carter, Jill - DPhil
 Goldstein, Tara - BA, PhD
 Gutsche-Miller, Sarah - PhD
 Houston, Andrew - DPhil
 Knowles, Richard - DPhil
 Leffler, Elliot - BS, MA, PhD

Drama, Theatre and Performance Studies: Drama, Theatre and Performance Studies MA

Master of Arts

Program Description

The graduate program of the Centre for Drama, Theatre and Performance Studies is an interdisciplinary program that intersects research in the fields of drama, theatre and performance studies including research in dramatic literature, cross-cultural theory and histories of theatre and performance, conceptual and applied models of dramaturgy and methodologies of practice-based research. Graduating students will be well equipped to pursue doctoral studies, serve as innovative leaders in cultural institutions and the performing arts, or become creative entrepreneurs.

Based on faculty research, we offer support for studies in Canadian theatre; Indigenous and East Asian theatre; dance and physical theatre; popular theatre; cross-cultural communication through performance and media; studies of experimental and avant-garde theatre in North America, Asia, and Europe; early modern theatre and archival studies; queer and feminist performance theory, ethics, and equity in theatre and performance; theatre and globalization; and digital humanities in performance. In addition to courses in the program, students are encouraged to take advantage of cross-listed courses and research opportunities across the humanities, sciences and social sciences. Bi-linguality or multi-linguality is an asset as well as creative artistic experience and a developed level of digital literacy.

Students entering the MA program can choose between the coursework-only option and thesis-based option. Applicants interested in the part-time MA option should contact the Associate Director (graduate) to obtain specific information prior to application.

Minimum Admission Requirements

- Applicants 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 are open until late April and admission decisions are made on an ongoing basis. Applicants, in particular international applicants, are encouraged to apply early. Contact the Associate Director for further information.

Program Requirements

Coursework-Only Option

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)**, as approved by the centre, as follows:
 - 1.5 FCEs in core courses, including
 - DRA 1001H *History and Historiography in Drama, Theatre and Performance Studies* (0.5 FCE)
 - DRA 1002H *Graduate Laboratory in Drama, Theatre and Performance Studies* (0.5 FCE)
 - DRA 1003H *Introduction to Drama, Theatre and Performance Studies* (0.5 FCE)
 - 2.5 FCEs in electives.
- The centre may prescribe certain courses in the individual programs of MA students.

Thesis-Based Option

- Students must complete a minimum of **4.0 full-course equivalents (FCEs)**, as approved by the centre, as follows:
 - 1.5 FCEs in core courses, including
 - DRA 1001H *History and Historiography in Drama, Theatre and Performance Studies* (0.5 FCE)
 - DRA 1002H *Graduate Laboratory in Drama, Theatre and Performance Studies* (0.5 FCE)
 - DRA 1003H *Introduction to Drama, Theatre and Performance Studies* (0.5 FCE)
 - 1.5 FCEs in electives.
 - 1.0 FCE: DRA 1004Y *MA Thesis* under the supervision of the course instructor.
- The centre may prescribe certain courses in the individual programs of MA students.

Program Length

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

Time Limit

3 years full-time

Drama, Theatre and Performance Studies: Drama, Theatre and Performance Studies PhD

Doctor of Philosophy

Program Description

The graduate program of the Centre for Drama, Theatre and Performance Studies is an interdisciplinary program that intersects research in the fields of drama, theatre and performance studies including research in dramatic literature, cross-cultural theory and histories of theatre and performance, conceptual and applied models of dramaturgy and methodologies of practice-based research. Graduating students will be well equipped to pursue academic careers,

serve as innovative leaders in cultural institutions and the performing arts, or become creative entrepreneurs.

Based on faculty research, support is offered for studies in Canadian theatre; Indigenous and East Asian theatre; dance and physical theatre; popular theatre; cross-cultural communication through performance and media; studies of experimental and avant-garde theatre in North America, Asia, and Europe; early modern theatre and archival studies; queer and feminist performance theory, ethics, and equity in theatre and performance; theatre and globalization; and digital humanities in performance. In addition to courses in the program, students are encouraged to take advantage of cross-listed courses and research opportunities across the humanities, sciences, and social sciences. Bilinguality or multilinguality is an asset as well as creative artistic experience and a developed level of digital literacy.

Applicants may be accepted into the PhD program via one of two routes: 1) following completion of an MA degree or 2) direct entry with a BA degree. The doctoral program is not available as a part-time option. The direct-entry option is a rare exception to the rule; interested applicants should contact the Associate Director (graduate) to obtain specific information prior to application.

PhD Program

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 are open until late April and admission decisions are made on an ongoing basis. Applicants, in particular international applicants, are encouraged to apply early. Contact the Associate Director for further information.
- Applicants with a **master of arts degree**: an MA in Drama, Theatre and Performance Studies or the equivalent from a recognized university, must have a 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.
- Applicants must arrange two reference letters that address specifically their academic skills and research potential. Admission will be conditional upon satisfactory recommendation.
- Applications must be accompanied by a statement of research intent (up to 5 pages plus bibliography), writing sample (15 pages plus bibliography), and curriculum vitae (CV).

Program Requirements

- **Coursework.** Students must complete **4.0 approved full-course equivalents (FCEs)** with an average standing of at least A-, including:

- DRA 1011H *Sources and Concepts in Drama, Theatre, and Performance Studies I* (0.5 FCE)
- DRA 1012H *Sources and Concepts in Drama, Theatre, and Performance Studies II* (0.5 FCE)
- DRA 1013H *Modelling New Scholarship in Drama, Theatre, and Performance Studies* (0.5 FCE)
- DRA 1014H *Teaching and Learning in Drama, Theatre, and Performance Studies* (0.5 FCE)
- DRA 5002H *Research Development in Drama, Theatre, and Performance Studies* (0.5 FCE).
- Demonstrate **reading knowledge of a language** other than English by passing an approved language examination no later than the end of Year 2. Students may also be asked to qualify in other program-related languages.
- Pass the **comprehensive examinations** by the beginning of Year 2.
- Pass the **field exam** (prospectus) at the end of Year 2 or the beginning of Year 3.
- 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.

Program Length

4 years (some students may take longer to complete the program)

Time Limit

6 years

PhD Program (Direct-Entry)

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 with a **bachelor of arts degree**: exceptional students may be admitted to the PhD program (direct entry) from an appropriate BA from a recognized university with a minimum overall average equivalent to a University of Toronto A-. Applicants who do not qualify for direct entry into the PhD will be considered for the MA program.
- Applicants must arrange two reference letters, preferably from undergraduate instructors familiar with the applicant's academic work, that address specifically their academic skills and research potential. Admission will be conditional upon satisfactory recommendation.
- Applications must be accompanied by a statement of research intent (up to 5 pages plus bibliography), writing sample (15 pages plus bibliography), and curriculum vitae (CV).

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** with an average standing of at least A-, including:
 - DRA 1011H *Sources and Concepts in Drama, Theatre, and Performance Studies I* (0.5 FCE)
 - DRA 1012H *Sources and Concepts in Drama, Theatre, and Performance Studies II* (0.5 FCE)
 - DRA 1013H *Modelling New Scholarship in Drama, Theatre, and Performance Studies* (0.5 FCE)
 - DRA 1014H *Teaching and Learning in Drama, Theatre, and Performance Studies* (0.5 FCE)
 - DRA 5002H *Research Development in Drama, Theatre, and Performance Studies* (0.5 FCE).
- Must maintain an A- average in their first 3.0 FCEs in order to continue in the program.
- Direct-entry students must take MA-level required courses based on consultations with the Director and the Associate Director, Graduate.
- With approval, may elect to transfer to the MA after the first year of study. Work completed in the PhD program will be credited towards the MA.
- Demonstrate **reading knowledge of a language** other than English by passing an approved language examination no later than the end of Year 2. Students may also be asked to qualify in other program-related languages.
- Pass the **comprehensive examinations** by the beginning of Year 3.
- Pass the **field exam** (prospectus) at the beginning of Year 4.
- 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.

Program Length

5 years

Time Limit

7 years

Drama, Theatre and Performance Studies: Drama, Theatre and Performance Studies MA, PhD Courses

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 and Historiography in Drama, Theatre, and Performance Studies
DRA 1002H	Graduate Laboratory in Drama, Theatre, and Performance Studies

DRA 1003H	Introduction to Drama, Theatre, and Performance Studies
DRA 1004Y	MA Thesis
DRA 1011H	Sources and Concepts in Drama, Theatre, and Performance Studies I
DRA 1012H	Sources and Concepts in Drama, Theatre, and Performance Studies II
DRA 1013H	Modelling New Scholarship in Drama, Theatre, and Performance Studies
DRA 1014H	Teaching and Learning in Drama, Theatre, and Performance Studies
DRA 1031H	Seminar in Playwriting
DRA 1105H	Performing History
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 4031H	Studies in Canadian Drama and Theatre
DRA 4090Y	Directed Reading/Theatre Research
DRA 4091H	Directed Reading/Theatre Research
DRA 4092H	Directed Reading
DRA 4093H	Directed Reading
DRA 5001H	The Disciplines of Drama, Theatre, and Performance Studies: Research Methods
DRA 5002H	Research Development in Drama, Theatre, and Performance Studies (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 Graduate Administrator.

Earth Sciences

Earth Sciences: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Earth Sciences

MASc, MSc, and PhD

Collaborative Specializations

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

- [Environmental Studies](#)
 - Earth Sciences, MASc, MSc, PhD

Overview

The Department of Earth Sciences at the University of Toronto has a venerable 165-year tradition of research and education in the geosciences. Rankings place U of T at the very top in the geosciences in Canada and among the very best institutions globally. The Department of Earth Sciences is internationally regarded for research in fundamental geoscience, having given rise to major advances in ore deposits geology, geophysics, Precambrian geology, marine geology, Quaternary geology, and sedimentary basin analysis.

Current education in Earth Sciences at the University of Toronto continues the tradition of excellence. Students have access to a wide range of state-of-the-art laboratories and expert knowledge fostering cutting-edge research in almost all areas of Earth Sciences.

Contact and Address

Web: www.es.utoronto.ca
 Email: grad@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

Earth Sciences: Graduate Faculty

Full Members

Anderson, Melissa - BSc, MSc, PhD
 Bailey, Richard - BSc, PhD
 Bergquist, Bridget - BS, PhD
 Bollmann, Jorg - DrRerNat
 Brenan, James - BSc, PhD
 Chu, Xu - BSc, MPH, PhD
 Cowling, Sharon - BSc, MSc, PhD
 Davis, Donald - BSc, MSc, PhD
 Desloges, Joseph - BES, MSc, PhD
 Diamond, Miriam - MSc, MSc, PhD
 Dittrich, Maria - 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
 Grasselli, Giovanni - PhD, PEng
 Gregory, Daniel - BSc, PhD
 Halfar, Jochen - PhD
 Head, Martin - BSc
 Henderson, Grant - PhD
 Howard, Ken - BSc, MSc, PhD
 Laflamme, Marc - BS, PhD
 Liu, Qinya - PhD
 Lui, Semechah - BS, MS, PhD
 Miall, Andrew - BSc, PhD
 Milkereit, Bernd - DrRerNat
 Peltier, W Richard - BSc, MSc, PhD
 Pysklywec, Russell - BSc, MSc, PhD (**Chair and Graduate Chair**)
 Reisz, Robert - BSc, MSc, PhD, FRSC
 Schoenbohm, Lindsay - PhD
 Schulze, Daniel - PhD
 Sherwood Lollar, Barbara - PhD
 Simpson, Myrna - BS, DPhil
 Spooner, Edward - BA, PhD
 Tait, Kimberly - BSc, MSc, PhD
 Warren, Lesley Alice - BSc, PhD
 Wells, Mathew - BS, DPhil
 Wortmann, Ulrich - BSc, MSc, PhD
 Young, Paul - BSc, MSc, PhD, CEng

Members Emeriti

Robin, Pierre-Yves - MSc, PhD
 Westgate, John - PhD

Associate Members

Bank, Carl-Georg - MSc, PhD
 Diné, Etienne - BSc, PhD
 Halverson, Galen - BA, PhD
 Hirschorn, Sarah - BSc, PhD
 Kamo, Sandra - BSc, PhD
 Mancini, Silvia - BSc, MSc, PhD
 Melymuk, Lisa - BSc, MSc, PhD
 Piunno, Paul - PhD
 Xu, Xiaoyong - BSc, MSc, PhD

Earth Sciences: Earth Sciences MASc

Master of Applied Science

Program Description

Students perform a two-year, focused research project 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 Chemistry, Civil Engineering, Ecology and Evolutionary Biology, Materials Science and Engineering, Physics, and the School of the Environment.

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.
- A four-year BSc or BASc degree, or its equivalent, from a recognized university.
- High academic standing, equivalent to a B or higher (equivalent to a 3.0 on a 4-point scale) at the University of Toronto, normally demonstrated by the average grade in the final two years.
- 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

- **Coursework.** Normally, complete **2.0 full-course equivalents (FCEs)** as follows:
 - ESS 1101H *Graduate Seminars in Geology* (0.5 FCE);
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H; and
 - 1.0 FCE of elective courses.
- A **research thesis**.

Program Length

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

Time Limit

3 years full-time

Earth Sciences: Earth Sciences MSc

Master of Science

Program Description

Students conduct research 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 Chemistry, Civil Engineering, Ecology and Evolutionary Biology, Materials Science and Engineering, Physics, and the School of the Environment.

There are two streams: a) the Doctoral-Stream (also known as Research-Based) Master's, which involves a one-year research project that culminates in a research report (shorter than a formal thesis) and a presentation; and b) the All-Course Masters' Program.

The program can be taken 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 Department of Earth Sciences' additional admission requirements stated below.
- A four-year BSc or BASc degree, or its equivalent, from a recognized university.
- High academic standing, equivalent to a B or higher (equivalent to a 3.0 on a 4-point scale) at the University of Toronto, normally demonstrated by the average grade in the final two years.
- 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

All-Course Option

- Students are normally required to complete 5.0 full-course equivalents (FCEs) as follows:
 - ESS 1101H *Graduate Seminars in Geology* (0.5 FCE);
 - ESS 3608H *All-Course Research Project* (0.5 FCE);
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H;
 - 3.5 FCEs of elective courses.
- To encourage breadth, the department will permit students to substitute electives with equivalent non-earth science courses.

Doctoral-Stream Option

- Students are normally required to complete 3.5 FCEs as follows:
 - ESS 1101H *Graduate Seminars in Geology* (0.5 FCE);
 - ESS 3603Y+ *Research Project* (1.0 FCE);
 - ESS 3601Y+ *Research Presentation* (1.0 FCE);
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H; and
 - 0.5 FCE of elective courses.
- To encourage breadth, the department will permit students to substitute electives with equivalent non-earth science courses.

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.*

Earth Sciences: Earth Sciences PhD

Doctor of Philosophy

Program Description

PhD students carry out a program of original research and perform a thesis defence. Students may also undertake studies in interdisciplinary areas by arrangement with other departments such as Chemistry, Civil Engineering, Ecology and Evolutionary Biology, Materials Science and Engineering, Physics, and the School of the Environment.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of a bachelor's degree.

PhD Program

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.
- An appropriate, research-oriented MSc degree or its equivalent from a recognized university.
- High academic standing equivalent to a University of Toronto B+ or higher (equivalent to a 3.3 on a 4-point scale) in previous degrees.
- 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 research area.
- **Coursework.** Students are required to complete **1.0 full-course equivalent (FCE)** as follows:
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H; and
 - an additional 0.5 elective FCE. The additional 0.5 FCE 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 areas. Recommendations must be made by a student's advisory

committee for consideration and approval by the department's Graduate Affairs Committee.

- 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- A four-year BSc or BASc degree, or its equivalent, from a recognized university. High academic standing during undergraduate study equivalent to an A– or higher (equivalent to a 3.7 on a 4-point scale) at the University of Toronto, normally demonstrated by the average grade in the final two years.
- 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 the [departmental website](#)). Students who transfer from the MSc to the PhD will not receive the MSc degree.

Program Requirements

- Preparation of a **research thesis** constituting a significant contribution to the research area.
- **Coursework.** Students are required to complete a total of **1.5 full-course equivalents (FCEs)** as follows:
 - ESS 1101H *Graduate Seminars in Geology* (0.5 FCE);
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H; and
 - an additional 0.5 elective FCE. The additional 0.5 FCE 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 areas. Recommendations must be made by a student's advisory committee for consideration and approval by the department's Graduate Affairs Committee.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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.
- A four-year BSc or BASc degree, or its equivalent, from a recognized university.
- High academic standing equivalent to an A– or higher (equivalent to a 3.7 on a 4-point scale) at the University of Toronto, normally demonstrated by the average grade in the final two years.
- 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 research area.
- **Coursework.** Students are required to complete a total of **1.5 full-course equivalents (FCEs)** as follows:
 - ESS 1101H *Graduate Seminars in Geology* (0.5 FCE);
 - one of the six breadth courses (0.5 FCE): ESS 2222H, ESS 2302H, ESS 2303H, ESS 2304H, ESS 2704H, or ESS 2708H; and
 - an additional 0.5 elective FCE. The additional 0.5 FCE 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 areas. Recommendations must be made by a student's advisory committee for consideration and approval by the department's Graduate Affairs Committee.
- 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.

Program Length

5 years

Time Limit

7 years

Earth Sciences: Earth Sciences MAsC, MSc, PhD Courses

Check with the department for the current year's offerings.

ESS 1101H	Seminars in Earth Sciences
ESS 1423H	Mineralogy
ESS 1430H	Basin Analysis
ESS 1436H	Paleoecological Assessment of Environmental Change

ESS 1441H	Advanced Structure
ESS 1445H	Global Tectonics
ESS 1461H	Paleoenvironmental Studies
ESS 1463H	Contaminants in the Environment
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 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
JPE 1452H	Geophysical Imaging: Non-seismic Methods
JPE 1493H	Seismology
JPE 2605H	Advanced Seismology

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.*

East Asian Studies

East Asian Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

East Asian Studies

MA and PhD

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - East Asian Studies, MA, PhD
- [Contemporary East and Southeast Asian Studies](#)
 - East Asian Studies, MA
- [Food Studies](#)
 - East Asian Studies, MA, PhD
- [Sexual Diversity Studies](#)
 - East Asian Studies, MA, PhD
- [South Asian Studies](#)
 - East Asian Studies, MA, PhD
- [Women and Gender Studies](#)
 - East Asian Studies, MA, PhD

Overview

The Department of East Asian Studies has a long, rich history at the University of Toronto as a centre for research and teaching on the humanities of East Asia, past and present. Faculty members specialize in social and cultural history, literature, philosophy, religion, language, art, film and visual culture. They are committed to the innovative pursuit of knowledge across regional, temporal and disciplinary divides. Many hold joint appointments with various departments, centres and collaborative specializations throughout the university.

Students and faculty in the department have access to a wide array of resources to support their research and learning. The Cheng Yu Tung East Asian Library holds more than 500,000 volumes in East Asian languages, making it a leading research collection in North America. The Royal Ontario Museum houses six separate galleries on the arts and artifacts of East Asia. The department and the Asian Institute host a variety of lecture series and workshops. The university campus is located in downtown Toronto, home to multiple thriving Asian communities.

Contact and Address

Web: www.eas.utoronto.ca
 Email: eas.grad@utoronto.ca
 Telephone: (416) 978-7260
 Fax: (416) 978-5711

Department of East Asian Studies
 University of Toronto
 Robarts Library 14-080, 130 St. George Street
 Toronto, Ontario M5S 3H1
 Canada

East Asian Studies: Graduate Faculty

Full Members

Cazdyn, Eric - BA, MA, PhD
 Feng, Linda Rui - BA, MA, PhD
 Kawashima, Ken - BA, MA, PhD
 Keirstead, Thomas - BA, MA, PhD
 Lam, Tong - BSc, MA, PhD
 Liu, Johanna - BA, MA, PhD
 Meng, Yue - BA, MA, MA, PhD
 Poole, Janet - BA, MA, PhD
 Sakaki, Atsuko - BA, MA, PhD
 Sanders, Graham - BA, PhD
 Schmid, André - BA, MA, PhD
 Wu, Yiching - BA, MA, MA, PhD
 Yoneyama, Lisa - BA, MA, PhD (**Graduate Coordinator**)

Members Emeriti

Arntzen, Sonja - BA, MA, PhD
 Donnelly, Michael - BSc, MA, PhD
 Falkenheim, Victor - AB, MA, PhD
 Liman, Anthony - MA
 Lynn, Richard - BA, MA, PhD
 Nakajima, Kazuko - BA, MA, MPH
 Schlepp, Wayne - BSc, BA, PhD
 Tsukimura, Reiko - BA, MA, PhD
 Waterhouse, David - BA, LRAM, MA, MA

Associate Members

Arimori, Jotaro - BA, AB, MA
 Chen, Li - BA, MA, AM, JD, PhD
 Chin, Carol - BA, MA, PhD
 Cho, Michelle - BA, MA, DPhil
 Crawford, Gary - BSc, MA, PhD
 Fujitani, Takashi - BA, MA, PhD
 Gu, Yi - BLitt, MMSt, PhD
 Hsiung, Ping-Chun - PhD
 Ko, Kyoungrok - BA, MA, MSc
 Komuro-Lee, Ikuko - BA, MA
 Luong, Hy Van - BA, PhD
 Peng, Ito - BSW, BSc, MA, PhD
 Purtle, Jennifer - BA, MPH, MA, PhD
 Rupprecht, Hsiao-Wei - BA, MA, MLS, PhD
 Shen, Chen - BA, PhD
 Tran, Nhung - MA, PhD
 Wong, Joseph - BA, MA, PhD, CRC

East Asian Studies: East Asian Studies MA

Master of Arts

Program Description

East Asian Studies offers three tracks through its MA program: 1) MA through coursework, 2) MA with Major Research Paper (MRP), and 3) MA with thesis. It is possible to switch between the three tracks as long as all requirements are fulfilled.

Applicants should consult the [department's website](#) for complete details on the MA program, applications, course offerings, and profiles of the graduate faculty.

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 three routes:
 - **Coursework:** normally 4.0 full-course equivalents (FCEs) with at least 2.0 FCEs in EAS courses, including the required course EAS 2020H *Critical Approaches to East Asia* (0.5 FCE).
 - **Coursework plus Major Research Paper (MRP):** the MRP must be written with the guidance of a supervisor after the completion of coursework. Normally 4.0 FCEs as follows:
 - 3.0 FCEs of coursework including at least 1.5 FCEs in EAS courses, including the required course EAS 2020H *Critical Approaches to East Asia* (0.5 FCE)
 - EAS 1150Y *Major Research Paper* (1.0 FCE).

- **Coursework plus thesis:** the thesis must be written with the guidance of a supervisor after the completion of coursework. Normally 4.0 FCEs as follows:
 - 3.0 FCEs of coursework including at least 1.5 FCEs in EAS courses, including the required course EAS 2020H *Critical Approaches to East Asia* (0.5 FCE)
 - EAS 1250Y *MA Thesis* (1.0 FCE).
- Courses are selected in consultation with the Coordinator of Graduate Studies.
- Students are encouraged to continue with necessary language study, but language courses are not included in the FCEs.

Program Length

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

Time Limit

3 years full-time

East Asian Studies: East Asian Studies PhD

Doctor of Philosophy

Program Description

The PhD program is a research degree that prepares students to teach and research in the area of East Asian Studies. The program consists of course work, language study, comprehensive exams, a dissertation prospectus, writing of a dissertation, and a final oral examination on the dissertation.

Applicants should consult the [department's website](#) for complete details on the PhD program, applications, course offerings, and profiles of the graduate faculty.

Applicants may enter the PhD program via one of two routes: 1) following completion of an appropriate MA degree or 2) direct entry after completing a BA degree.

PhD Program

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-.
- 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

- **Coursework.** Students must complete **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 Year 1, with an average grade of at least A–. The remaining courses are normally completed by the end of Year 2, maintaining an average of at least A–.
 - EAS 2020H *Critical Approaches to East Asia* is a required course if not taken previously. If EAS 2020H has previously been taken, students are required to take an additional 0.5 FCE.
 - Students are permitted to take some of their courses in other departments.
- A **comprehensive qualifying examination**, undertaken with the guidance of a supervisory committee, must be taken by November 30 of Year 3. 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 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; 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. Students will take a language placement test (or multiple tests, depending on the area of study) at the beginning of their program. Upon receiving the placement result, students must meet with their supervisor. If the appropriate level of proficiency has not been demonstrated, the student and their supervisor will devise a plan for achieving proficiency by November 30 of Year 3. The plan will be approved by the Coordinator of Graduate Studies.
- 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 students'

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 their supervisory committee. The completed dissertation must be defended at a Doctoral Final Oral Examination.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Admission to the PhD program normally requires 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–. However, 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

- **Coursework.** Students must complete **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 Year 1, with an average grade of at least A–. The remaining courses are normally completed by the end of Year 2, maintaining an average of at least A–.
 - EAS 2020H *Critical Approaches to East Asia* (0.5 FCE) is a required course if not taken previously. If EAS 2020H has previously been taken, students are required to take an additional 0.5 FCE.

- Students are permitted to take some of their courses in other departments.
- EAS 1150Y *Reading and Major Research Paper* (1.0 FCE), to be written with the guidance of and assessed by the student's academic supervisor, must be completed by August 31 of Year 2.
- A **comprehensive qualifying examination**, undertaken with the guidance of a supervisory committee, must be taken by February 28 of Year 3. 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 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; 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. Students will take a language placement test (or multiple tests, depending on the area of study) at the beginning of their program. Upon receiving the placement result, students must meet with their supervisor. If the appropriate level of proficiency has not been demonstrated, the student and their supervisor will devise a plan for achieving proficiency by November 30 of Year 3. The plan will be approved by the Coordinator of Graduate Studies.
- 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 students' 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 their supervisory committee. The completed dissertation must be defended at a Doctoral Final Oral Examination.

Program Length

5 years

Time Limit

7 years

East Asian Studies: East Asian Studies MA, PhD Courses

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 1102H	Classical Chinese II (prerequisite: EAS110Y1; exclusion: EAS458H1)
EAS 1103Y	Introduction to Classical Japanese
EAS 1177H	Chinese Cultural and Historical Studies
EAS 1180H	Environmental Criticism
EAS 1335H	Violence, Justice, the Human
EAS 1336H	Memory and Trauma in Critical East Asian Historical Perspective
EAS 1337H	Diaspora and Transpacific Studies
EAS 1339H	Topics in Chinese Art Theories
EAS 1419H	Chinese Cultural Studies Seminar: May Fourth
EAS 1432H	Korean Cultural Studies Seminar
EAS 1435H	Crisis, Repetition, and History
EAS 1436H	Rethinking Realism in 20th Century Korea
EAS 1439H	Crisis, Population, Archive
EAS 1441H	Advanced Topics in Japanese Cinema
EAS 1445H	On the Organic: Land and Labour Power
EAS 1447H	Sound Studies and Modern Japan
EAS 1449H	Future, Architecture, Japan
EAS 1474H	US and Canada's Wars in East Asia
EAS 1475H	Contemporary Cultural Theories
EAS 1477H	Samurai Culture (exclusion: EAS477H1)
EAS 2020H	Critical Approaches to East Asia
EAS 2323H	Rethinking Chinese Cultural History

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 1176H	Comparative Historical Socialisms in East Asia and Beyond
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 1174Y	Rethinking Empire in East Asia
EAS 1425H	Critique of Everyday Life and Capitalism
EAS 1431H	Mass Culture, Capitalist Crisis, Fascism in Modern Japan
EAS 1434H	Karatani's The Structure of World History and the Politics of Marx
EAS 1446H	The Communist Hypothesis and Asia (exclusion: EAS446H1)
EAS 1466H	History, Everyday Life, and North Korea

EAS 1471H	Issues in Political Economy of South Korea
EAS 1496H	History of the Chinese Book

Language

EAS 1115Y	Reading Japanese for Graduate Purposes (Credit/No Credit)
EAS 1263H	Classical Japanese I
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 1322H	Modern Standard Japanese II 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 1417H	Korean Literary Translation
EAS 1437H	Mid-century Modernism in the Koreas: Literature, War, and Decolonization
EAS 1444H	The City, Body, and Text in Modern Japanese Literature
EAS 1467H	Photographic Narratives of Japan
EAS 1468H	Mahayana Sutra Literature
EAS 1538H	Writing Women in Premodern China

COL 5101H	Diasporic Cities: Itinerant Narratives of Metropolises by Travellers and Expatriates
JLA 5082H	The Rhetoric of Photography

Philosophy and Religion

POL 2416Y	Politics and Society in Contemporary China
-----------	--

Research Seminars

EAS 1100H,Y	Special Topics in Chinese Studies
EAS 1116H,Y	Special Topics in Chinese Culture
EAS 1143H	Topics in Medieval China
EAS 1150H,Y	Reading and Major Research Paper
EAS 1163H	Special Topics in Korean Studies
EAS 1250Y	MA Thesis (Credit/No Credit)
EAS 1300H	Special Topics in Japanese Studies
EAS 1313Y	Japanese Source Materials and Reference Works
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

Ecology and Evolutionary Biology

Ecology and Evolutionary Biology: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Ecology and Evolutionary Biology

MSc and PhD

Collaborative Specializations

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

- [Environmental Studies](#)
 - Ecology and Evolutionary Biology, PhD
- [Genome Biology and Bioinformatics](#)
 - Ecology and Evolutionary Biology, PhD
- [Human Development](#) (admissions have been suspended)
 - 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, population/community ecology, ecosystem/landscape/evolutionary ecology, conservation biology, developmental biology, genetics, evolutionary genetics, genomics, molecular evolution, plant biology, animal biology, taxonomy/systematics, and theoretical biology.

Strong links exist between the Department of Ecology and Evolutionary Biology (EEB) and the Royal Ontario Museum, the Centre for Global Change, and the School of the Environment. The University owns a nearby field station dedicated to ecological and evolutionary research (the [Koffler Scientific Reserve](#)). The department also has a partnership with the Ontario Ministry of Natural Resources and Forestry that helps provide access to infrastructure, including [lab facilities](#) in Algonquin Provincial Park, funding, and long-term data sets.

Graduate students are engaged in all aspects of the departmental community including reading and discussion groups, seminars, and social events. Other activities include

workshops on writing papers, giving presentations, R and Python, and finding positions — both academic and those outside of universities.

The EEB department has 60 faculty members specializing in ecology and evolution. Professors supervising 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: gradadmin.eeb@utoronto.ca
 Telephone: (416) 978-7172
 Fax: (416) 978-5878

Department of Ecology and Evolutionary Biology
 University of Toronto
 Earth Sciences Centre
 Room 3046, 25 Willcocks Street
 Toronto, Ontario M5S 3B2
 Canada

Ecology and Evolutionary Biology: Graduate Faculty

Full Members

Agrawal, Aneil - BSc, PhD, CRC
 Andrade, Maydianne - BSc, MS, PhD
 Barrett, Spencer - BSc, PhD
 Boonstra, Rudy - BSc, PhD
 Cadotte, Marc - BS, MS, PhD
 Campbell, Malcolm - DPhil
 Caron, Jean-Bernard - MSc, PhD
 Chang, Belinda - AB, PhD, CRC
 Currie, Douglas - BSc, PhD
 Cutter, Asher - PhD, CRC
 Cyr, Helene - BSc, MSc, PhD
 Darling, D. Christopher - MSc, PhD
 Eckenwalder, James - BA, PhD
 Engstrom, Mark - BSc, MSc, 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
 Gross, Mart - BSc, PhD
 Guttman, David - BS, PhD
 Gwynne, Darryl - BSc, PhD
 Holmes, Melissa - BA, MA, PhD
 Jackson, Donald - BSc, MSc, PhD
 Johnson, Marc - BSc, PhD
 Kohn, Linda - BS, PhD
 Kotanen, Peter - BSc, MSc, PhD
 Krkosek, Marty - BSc, PhD
 Kronzucker, Herbert - PhD
 Kvist, Sebastian - BS, MS
 Levine, Joel - BA, PhD
 Lovejoy, Nathan Richard - BSc, MS, PhD
 MacIvor, Scott - BSc, MSc, PhD
 Mahler, Luke - BA, PhD

Mandrak, Nicholas - BSc, MSc, PhD
 Mason, Andrew - MS, PhD
 McCauley, Shannon - PhD
 McLennan, Deborah - BSc, PhD
 McMeans, Bailey - BSc, MSc, PhD
 Mideo, Nicole - BSc, PhD
 Molnar, Peter Kalman - BS, MMath, PhD
 Moncalvo, Jean-Marc - PhD
 Murphy, Robert - BSc, MA, PhD
 Ratcliffe, John - BSc, MSc, PhD
 Reisz, Robert - BSc, MSc, PhD, FRSC
 Rochman, Chelsea - BS, PhD
 Rodd, Helen - MSc, PhD
 Rowe, Locke - BSc, MSc, PhD, CRC
 Sage, Rowan - PhD
 Sage, Tammy - BA, MS, PhD
 Short, Steven - BSc, PhD
 Sokolowski, Marla - BSc, PhD, CRC
 Stefanovic, Sasa - MSc, PhD
 Stinchcombe, John - BA, PhD
 Sztapanacz, Jacqueline - BSc, MSc, PhD
 Thomson, James - MS, PhD
 Wagner, Helene - MSc, MSc, PhD
 Wang, Yan - BSc, MSc, PhD
 Weir, Jason Tyler - AB, PhD
 Weis, Arthur - BPhil, PhD
 Welch Jr., Ken - BS, MA, PhD
 Wright, Stephen - BSc, MS, PhD, CRC (*Chair and Graduate Chair*)

Members Emeriti

Dengler, Nancy - BA, MS, PhD
 Harvey, Harold - MSc, PhD
 Morris, Glenn - BSA, MS, PhD
 Thompson, Paul - BA, MA, PhD

Associate Members

Chu, Cindy - BSc, MSc, PhD
 De Kerckhove, Derrick - BSc, MSc, PhD
 Jeffrey, Melanie - PhD, PhD
 Lester, Nigel Paul - BA, MSc, PhD
 Minns, Charles - BSc, PhD
 Ray, Justina - BS, MS, PhD
 Ridgway, Mark - MSc, PhD
 Shuter, Brian - BSc, MSc, PhD
 Somers, Keith - MSc, PhD

Ecology and Evolutionary Biology: Ecology and Evolutionary Biology MSc

Master of Science

Program Description

The main goal of the MSc program is to provide students with the opportunity to design, conduct, and write a substantial independent research project. Students' projects cover the full range of topics listed in the Overview (above) and may include field work, lab work, bioinformatics, computer simulations, and/or theory. MSc students must demonstrate competence in independent research and will do research with the goal of

authoring or co-authoring a scientific publication. Graduates go on to a wide range of careers including jobs in government agencies, teaching, and 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 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

- **Coursework.** Students must complete **0.5 graduate full-course equivalent (FCE)** chosen from courses offered by the EEB department or, with the permission of the supervisor(s) and supervisory committee, offered by other U of T departments. Students should consult supervisory faculty about the most appropriate courses.
- Students must complete a **thesis** under the direction of the student's supervisor, assisted by an advisory committee, and defended at an oral examination.

Program Length

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

Time Limit

3 years full-time

Ecology and Evolutionary Biology: Ecology and Evolutionary Biology PhD

Doctor of Philosophy

Program Description

The main goal of the PhD program is to provide students with the opportunity to design, conduct, and write about a series of substantial, inter-related, independent research projects. Students' projects cover the full range of topics listed in the Overview (above) and may include field work, lab work, bioinformatics, theory, computer simulations, or some combination of these approaches.

- PhD students are expected to complete an original independent research program that makes substantial and innovative contributions to their field of research. It is expected that PhD candidates will publish a number of primary scientific papers based on their research.
- A thesis is completed under the direction of the student's supervisor(s), assisted by a supervisory (advisory) committee, and defended at an oral examination.

- The average time to completion is 5.5 years.
- Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of a BSc degree.

PhD Program

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 be admitted only when they have made arrangements to secure a research supervisor by contacting professors in the department.
- 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.

Program Requirements

- **Coursework.** Students must complete **1.5 graduate full-course equivalents (FCEs)** (three half courses). These courses are chosen from those offered by the EEB department, or with the permission of the supervisor(s) and supervisory committee, offered by other U of T departments.
- During an **appraisal exam**, students are examined on both their mastery of concepts in ecology and evolutionary biology and a submitted research proposal. Students are examined 14 to 20 months into the 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

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- 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.
- Students must make arrangements to secure a research supervisor by contacting professors in the department.

Program Requirements

- **Coursework.** Students must complete **2.0 graduate full-course equivalents (FCEs)** (four half courses). These courses are chosen from those offered by the EEB department or, with the permission of the supervisor(s) and supervisory committee, offered by other U of T departments.
- Students transferring into the PhD program from the MSc may apply 0.5 graduate FCE towards the PhD course requirement.
- During an **appraisal exam**, students are examined on both their mastery of concepts in ecology and evolutionary biology and a submitted research proposal. Students are examined 14 to 26 months into the 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

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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 be admitted only when they have made arrangements to secure a research supervisor by contacting professors in the department.
- Exceptional applicants may be accepted for direct entry into the PhD with a BSc degree, an average grade equivalent to a University of Toronto A– or better in courses in ecology and evolutionary biology, and evidence of research potential.

Program Requirements

- **Coursework.** Exceptional students admitted to the PhD program without an MSc degree must complete **2.0 graduate full-course equivalents (FCEs)** (four half courses). These courses are chosen from those offered by the EEB department, or with the permission of the supervisor(s) and supervisory committee, offered by other U of T departments.
- During an **appraisal exam**, students are examined on both their mastery of concepts in ecology and evolutionary biology and a submitted research proposal. Students are examined 14 to 26 months into the 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.

EEB 1443H	Phylogenetic Principles
EEB 1459H	Population Genetics
EEB 1460H	Molecular Evolution

Program Length

5 years

Time Limit

7 years

Ecology and Evolutionary Biology: Ecology and Evolutionary Biology MSc, PhD Courses

Not all courses are offered every year. Please visit 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 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 1430H	Modelling in Ecology and Evolutionary Biology
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 1451H	Special Topics in Ecology and Evolution B
EEB 1452H	Special Topics: Evolution/Ecology Module I
EEB 1453H	Special Topics: Evolution/Ecology Module II
EEB 1454H	Special Topics: Evolution/Ecology Module III
EEB 1455H	Special Topics: Evolution/Ecology Module IV
EEB 1456H	Special Topics: Evolution/Ecology Module V
EEB 1462H	Phylogenetic Systematics

Graduate Courses With Significant Undergraduate Content

These courses will normally constitute only a minor component of the required credits.

EEB 1328H	Physiological Ecology
EEB 1340H	Comparative Plant Morphology

Economics

Economics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Economics

MA and PhD

Combined Degree Programs

- [STG, Law, Juris Doctor / Economics, MA](#)
- [STG, Law, Juris Doctor / Economics, PhD](#)

Overview

The Department of Economics at the University of Toronto is large and highly ranked. The teaching and research interests of its graduate faculty members span a wide range of subjects and cover theory, applied data analysis and econometric methodology.

The department offers both MA and PhD programs in economics. The goal of the graduate programs is to further the student's capacity for economic analysis through rigorous instruction in theory, econometrics and a wide variety of fields. The MA and PhD course and research offerings provide great diversity, breadth and scope; students can readily specialize in almost any area of interest. Additionally, students may take suitable elective courses in statistics, mathematics, computer science and other allied fields. Students benefit from Economics' close association with faculty members from related programs, such as those at the Rotman School of Management. They also benefit from the University of Toronto's excellent facilities, including the best university library in Canada.

The department's programs attract students from across Canada and all parts of the globe. Approximately 65 new MA students and 15 to 20 new PhD students are enrolled each year with total combined enrolment of approximately 150.

MA graduates find employment in their area of interest in the public, private and not-for-profit sectors. They also successfully pursue PhD programs in economics. PhD graduates obtain academic placement and employment in the public and private sectors.

The Department of Economics and the Rotman School of Management also offer a professional [Master of Financial Economics \(MFE\)](#) program.

Contact and Address

MA and PhD:

Web: www.economics.utoronto.ca

Email:

www.economics.utoronto.ca/index.php/index/index/contact

Telephone: (416) 978-4544

MA and PhD Graduate Office
Department of Economics, Max Gluskin House
University of Toronto
150 St. George Street
Toronto, Ontario M5S 3G7
Canada

Economics: Graduate Faculty

Full Members

Aguirregabiria, Victor - BA, MSc, PhD
Aivazian, Varouj - BS, MA, PhD
Alexopoulos, Michelle - BSc, MA, PhD
Baker, Michael - BComm, MA, PhD
Bar-Isaac, Heski - BA, MSc, PhD
Baum-Snow, Nathaniel - AB, PhD
Benjamin, Dwayne - BSc, MA, PhD
Blouin, Arthur - BA, MA, PhD
Bobonis, Gustavo - BA, PhD
Brandt, Loren - BS, MS, PhD
Burda, Martin - BSc, MA, PhD
Chandra, Ambarish - BMATH, MEd, PhD
Cziraki, Peter - MPH, MA, MSc, PhD
Damiano, Ettore Vincenzo - AB, MA, MPH, PhD (**Chair and Graduate Chair**)
Deb, Rahul - MA, MPH, PhD
Duarte, Margarida - MEd, PhD
Dyrda, Sebastian - MA, MA, PhD
Eli, Shari - BA, PhD
Faig, Miquel - MEd, PhD
Gans, Joshua - BEc, PhD
Goldfarb, Avi - BA, MA, PhD
Gourieroux, Christian - PhD
Gu, Jiaying - BA, MSc, PhD
Halberstam, Yosh - BA, MA, PhD
Halevy, Yoram - BA, MA, PhD
Hall, Jonathan - BA, PhD
Hamilton, Gillian - MEd, PhD
Kambourov, Gueorgui - BA, MA, DPhil
Kramer, Lisa - BBA, PhD
Kroft, Kory - BA, MA, PhD
Kuruscu, Burhan - BSc, MA, PhD
Lacetera, Nicola - PhD
Luo, Yao - BS, MA, PhD
McMillan, Robert - AB, DPhil
Melino, Angelo - BA, PhD
Mitchell, Matthew - BS, MA, PhD
Mondria, Jordi - BA, MA, PhD
Morrow, Peter - BA, MA, PhD
Mourifie, Ismael - BMATH, MSc, PhD
Oreopoulos, Philip - BA, MA, PhD
Osborne, Martin - BA, PhD
Ozkan, Serdar - MEd, PhD
Park, Andreas - MEd, MPH, PhD
Peski, Marcin - BA, MA, MA, PhD
Pitchik, Carolyn - BA, MSc, PhD
Restuccia, Diego - BA, MA, PhD

Shi, Xianwen - PhD
 Siow, Aloysius - BA, PhD
 Smart, Michael - BA, BA, PhD
 Stabile, Mark - BA, MA, PhD, PhD
 Steinberg, Joseph - BA, PhD
 Stewart, Colin - BSc, MPH, MA, MSc, PhD (**Associate Chair, Graduate Studies**)
 Strange, William - BA, MA, PhD
 Trebilcock, Michael - LLB, LLM
 Treffer, Daniel - BA, MPH, PhD
 Wan, Yuanyuan - BA, MA, PhD
 Wolthoff, Ronald - PhD
 Yatchew, Adonis - BA, MA, PhD
 Zhu, Xiaodong - PhD

Members Emeriti

Anderson, Gordon - BA, MSc, PhD
 Berry, R. Albert - BA, PhD
 Cohen, Jon - BA, MA, PhD
 Dewees, Donald - LLB, BScEE, PhD
 Eddie, Scott - BS, PhD
 Floyd, John - BComm, MA, PhD
 Fuss, Melvyn - BSc, MA, PhD
 Gunderson, Morley - BA, MA, PhD
 Helleiner, Gerald - BA, PhD
 Hollander, Samuel - BSc, PhD
 Hynes, J. Allan - BA
 Pesando, James - BA, MA, PhD
 Reid, Frank - BA, MSc, PhD
 Watson, Andrew - BComm, BA, MA
 Wilson, Thomas - BA, AM, PhD

Associate Members

Arteaga Cabrales, Carolina - PhD, PhD
 Bau, Natalie - BA, PhD
 Beauchamp, Jonathan - PhD
 Celik, Murat - PhD
 Chan, Mons - BA, MA, MA, PhD
 Goldman, Jim - BS, MSc, PhD
 Hussain, Ajaz - BA, PhD
 Lim, Kevin Shun Wei - MA, MA, PhD
 Price, David - BA, MA, PhD
 Roesler, Anne-Katrin - PhD
 Tian, Xu - BA, MA, PhD
 Tsoy, Anton - PhD
 Van Effenterre, Clementine - PhD

Economics: Economics MA

Master of Arts

Program Description

The MA is a coursework-only program (i.e., has no thesis requirement) that may be taken on a full-time or part-time basis. It is designed for individuals who wish to work in the public, private, and not-for-profit sectors, and also for students intending to pursue a PhD in economics.

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 [departmental website](#) for details.

Program Requirements

- 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). Five 0.5 FCE elective courses are selected from current courses or may be graduate courses offered by another unit, provided they make a strong contribution to the student's economic training. At most two (1.0 FCE) of the five courses may be offered by another unit, and these courses must be approved by the Associate Chair, Graduate Studies. Units that offer courses that we may approve include Mathematics, Statistical Sciences, and the Rotman School of Management.
 - An MA student may be permitted to fulfil core course requirements by taking the corresponding PhD-level core courses (ECO 2020H and ECO 2030H for microeconomics, ECO 2021H and ECO 2031H for macroeconomics, or ECO 2400H and ECO 2401H for econometrics). To make this substitution, the student will be required to take the PhD-level ECO 1011H (mathematics and statistics course), and must obtain written permission from the Associate Chair, Graduate Studies prior to starting the mathematics and statistics course in August.

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

Economics: Economics PhD

Doctor of Philosophy

Program Description

The Department of Economics offers two PhD programs: a regular-entry program for students who have completed a masters' degree in economics or a closely related field, and a direct-entry program for students with only an undergraduate degree. Both are full-time programs.

PhD Program

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.
- 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 [departmental website](#) for details.

Program Requirements

- Students must maintain a minimum average of B+ throughout their **coursework** and successfully complete a total of **4.0 full-course equivalents (FCEs)** as follows:
 - **Year 1:** 3.0 FCEs, normally consisting of two half courses in each area:
 - Microeconomics (ECO 2020H and ECO 2030H)
 - Macroeconomics (ECO 2021H and ECO 2031H)
 - Econometrics (ECO 2400H and ECO 2401H)
 - **Year 2:** at least two half courses (1.0 FCE), including the required courses for a major field of specialization and a minor field of specialization.
 - Students must write an original paper in Year 2 and present it in the relevant workshop in the Fall session of Year 3.
 - Students must also take ECO 4060Y⁰ *Graduate Research Seminar* (1.0 FCE) in Year 2 and complete it by the end of Year 3.
 - Suitable PhD-level courses taken by a student in the MA program in the Department of Economics may, with the permission of the Associate Chair, Graduate Studies, fulfil a portion of the major and minor field requirements of the PhD program.
- 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.

- If a student does not obtain a minimum grade of A in every course required for their major field of specialization, or took some of the required courses during their MA in Economics program at the University of Toronto, the student is required to take a **field comprehensive examination** in their major field of specialization after the end of the Winter session in Year 2 (usually June). If the exam is failed, it must be re-taken later in the Summer (usually in August) of the same year. The major fields of specialization offered regularly are:
 - Behavioural Economics
 - Econometrics
 - Economic Development
 - Financial Economics
 - Industrial Organization
 - International Economics
 - Labour Economics
 - Macroeconomics
 - Microeconomic Theory
 - Public Economics.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Minimum A- standing in the last two years of study in a bachelor's program in economics or a related field, such as finance, statistics, or mathematics. Because admission is competitive, accepted applicants will normally have achieved a standing considerably higher than the minimum A-.
- A strong preparation in advanced mathematics, statistics, and economics.
- 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 [departmental website](#) for details.

Program Requirements

- Students must maintain a minimum average of B+ throughout their **coursework** and successfully complete a total of **6.0 full-course equivalents (FCEs)** as follows:
 - Year 1:** normally two half courses in each area (3.0 FCEs), as follows:
 - Microeconomics (ECO 2020H and ECO 2030H)
 - Macroeconomics (ECO 2021H and ECO 2031H)
 - Econometrics (ECO 2400H and ECO 2401H)
 - Year 2:** six half courses (3.0 FCEs), including the required courses for a major field of specialization and a minor field of specialization.
 - Students must write an original paper in Year 2 and present it in the relevant workshop in the Fall session of Year 3.
 - Students must also take ECO 4060Y⁰ *Graduate Research Seminar* (1.0 FCE) in Year 2 and complete it by the end of Year 3.
- A **thesis** based on original research.
- General examinations.**
 - Successful completion of **theory comprehensive examinations**. Students must 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.
 - If a student does not obtain a minimum grade of A in every course required for their major field of specialization, the student must take a **field comprehensive examination** in their major field of specialization after the end of the Winter session in Year 2 (usually June). If the exam is failed, it must be re-taken later in the Summer (usually in August) of the same year. The major fields of specialization offered regularly are:
 - Behavioural Economics
 - Econometrics
 - Economic Development
 - Financial Economics
 - Industrial Organization
 - International Economics
 - Labour Economics
 - Macroeconomics
 - Microeconomic Theory
 - Public Economics.

Program Length

5 years

Time Limit

7 years

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

Economics: Economics MA, PhD Courses

Not all courses are offered every year. Please refer to the department's website for a current [course list](#).

Preliminary Courses

ECO 1010H	Mathematics and Statistics for MA and MFE Students (Credit/No Credit)
ECO 1011H	Mathematics and Statistics for 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)
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

Economic History

ECO 2234H	Topics in North American Economic History
-----------	---

International Economics

ECO 2300H	International Trade Theory
ECO 2301H	International Monetary Theory
ECO 2302H	Networks in Trade and Macroeconomics
ECO 2303H	International Macroeconomics
ECO 2304H	International Trade II (prerequisite: ECO 2300H)
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
ECO 2104H	Quantitative Macroeconomics
ECO 2500H	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 (exclusion: ACT 370H, ECO 461H, 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 2607H	Economics of Education Policy
ECO 2610H	Health Economics
ECO 2611H	Empirical Welfare Analysis
ECO 2620H	Topics in Health Economics

Economic Development

ECO 2700H	Economic Development
ECO 2701H	Advanced Development Economics
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	Advanced Methods for Empirical Microeconomics
ECO 2804H	Social Economics
ECO 2843H	Methods for Empirical Microeconomics (exclusions: ECO 439H, ECO 2803H)

Industrial Organization

ECO 2900H	Industrial Organization I
ECO 2901H	Industrial Organization II
ECO 2908H	Industrial Organization and Competition Policy

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 3100H	Behavioural Economics
ECO 3140H	Topics in Behavioural Economics
ECO 3202H	Urban and Regional Economics
ECO 3300H	Political Economy (exclusion: ECO 434H)
ECO 3400H	Economic Applications of Machine Learning
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.

Electrical and Computer Engineering

Electrical and Computer Engineering: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Electrical and Computer Engineering

MASc

- Fields:
 - Biomedical Engineering;
 - Communications;
 - Computer Engineering;
 - Electromagnetics;
 - Electronics;
 - Energy Systems;
 - Photonics;
 - Systems Control
- Emphases:
 - Robotics;
 - Sustainable Energy

MEng

- Emphases:
 - Analytics;
 - Biomedical Engineering;
 - Communications;
 - Computer Engineering;
 - Electromagnetics;
 - Electronics;
 - Energy Systems;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Identity, Privacy and Security (IPS);
 - Photonics;
 - Robotics;
 - Sustainable Energy;
 - Systems Control

PhD

- Fields:
 - Biomedical Engineering;
 - Communications;
 - Computer Engineering;
 - Electromagnetics;
 - Electronics;
 - Energy Systems;
 - Photonics;
 - System Control
- Emphases:
 - Robotics;
 - Sustainable Energy

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Electrical and Computer Engineering, MASc, PhD
- [Psychology and Engineering](#)
 - Electrical and Computer Engineering, MASc, PhD

Overview

During the past few decades, we have witnessed exciting new discoveries and developments in almost every aspect of electrical and computer engineering, including microelectronics, computers, communication networks, photonics, alternative energy systems, robotics, and many others. At the intersection of computers and communications there are opportunities that are limited only by our imagination. Along with these highly visible developments, there are equally impressive achievements in building the theoretical underpinnings of the respective areas of knowledge. Graduate studies provide the highly qualified individuals who are the lifeblood of the research leading to these advances.

The Department of Electrical and Computer Engineering is engaged in the pursuit and dissemination of knowledge across a wide range of areas of engineering and applied science — from the fabrication of atomic-level structures with special optical properties, through to the technologies that have revolutionized our world, such as microelectronics, computer systems, software, and networks.

The department conducts research in the following fields of study: Biomedical Engineering, Communications, Computer Engineering, Electromagnetics, Electronics, Energy Systems, Photonics, and System Control.

Contact and Address

Web: www.ece.utoronto.ca
 Email: ecegradoffice@utoronto.ca
 Telephone: (416) 978-5804
 Fax: (416) 978-1145

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

Electrical and Computer Engineering: 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
 Austin, Lisa - BA, BSc, LLB, MA
 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
 Cheng, Hai-Ling - BSc, MS, PhD
 Chow, Paul - BASc, MAsC, PhD
 Dawson, Francis - BSc, BASc, MAsC, PhD
 De Lara, Eyal - BS, MS, PhD
 Draper, Stark - BA, PhD
 Eleftheriades, George - DiplIng, MSEE, PhD
 Enright Jerger, Natalie - BSc, MSc, PhD
 Frey, Brendan - BSc, MSc, PhD
 Genov, Roman - BS, MS, PhD
 Ghassemi, Marzyeh - PhD
 Goel, Ashvin - BTech, MS, PhD
 Gulak, Glenn - BASc, MSc, PhD
 Hatzinakos, Dimitrios - DiplIng, MSc, PhD
 Helmy, Amr - BSc, MSc, PhD
 Herman, Peter - BEng, MSc, PhD
 Hooshyar, Ali - BSE, 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
 Khisti, Ashish - BASc, PhD
 Kschischang, Frank - BASc, MAsC, PhD (**Associate Chair, Graduate Studies**)
 Kundur, Deepa - BASc, MAsC, PhD (**Chair and Graduate Chair**)
 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
 Long, Fan - 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
 Ng, Wai Tung - BSc, MAsC, PhD
 Pavel, Lacra - BEng, PhD
 Pekhimenko, Gennady - BS, MS, 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, Costas - BE, MS, PhD
 Scardovi, Luca - MSc, PhD
 Schroeder, Bianca - MSc, PhD

Sheikholeslami, Ali - BSc, MAsC, PhD
 Sousa, Elvino - BASc, MAsC, PhD
 Stumm, Michael - MS, PhD
 Sun, Yu - BS, MS, MS, PhD
 Tate, Zeb - BS, MS, PhD
 Taylor, Josh - BS, SM, PhD
 Trescases, Olivier - BASc, MAsC, PhD
 Triverio, Piero - BScEE, MS, PhD
 Truong, 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

Blake, Ian - BASc, MAsC, PhD
 Bonert, Richard - DiplIng, DE
 Cobbold, Richard - PhD
 Davison, Edward - BASc, MA, PhD, ARCT
 Dmitrevsky, Sergi - BASc, MAsC, AM, PhD
 Eizenman, Moshe - BASc, MAsC, PhD
 Iizuka, Keigo - BS, ME, MS, 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

Al Janaideh, Mohammad - PhD
 Caldwell, Trevor - PhD
 Chisholm, William - BASc, MEng, PhD
 Dong, Min - BEng, PhD
 Eckford, Andrew - BE, MAsC, PhD
 Gibson, Courtney - BASc, MAsC
 Lawryshyn, Yuri - DiplIng, BASc, MAsC, MBA, PhD
 Ma, Tom - PhD
 Makhzani, Alireza - PhD
 Maljevic, Ivo - PhD
 Pagiamtzis, Kostas - PhD
 Papernot, Nicolas - BS, MSc, PhD
 Savor, Tony - PhD
 Shahbazpanahi, Shahram - PhD
 Strauss, John - MD
 Yazdani, Amirnaser - BSc, MSc, PhD
 Zariffa, Jose - DrEng

Electrical and Computer Engineering: Electrical and Computer Engineering MASc

Master of Applied Science

Program Description

The MASc provides students with an opportunity to pursue advanced studies in the particular area of interest and an opportunity to engage in research.

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

- 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.
- During Year 1, students are required to attend the ECE Colloquium and complete JDE 1000H *Ethics in Research* (0.0 FCE).
- **Coursework.** Normally, completion of **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 area will be required to complete additional courses.
- **Thesis.** This thesis shall demonstrate the student's ability to do independent work in relating, organizing, and extending existing techniques where required, and in suggesting and developing new approaches to problems in an area of applied science and engineering.
- Students have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Electrical and Computer Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years full-time

Electrical and Computer Engineering: Electrical and Computer Engineering MEng

Master of Engineering

Program Description

The MEng 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 MEng program can be taken on a full-time, extended full-time, or part-time basis.

Full-Time Option

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

- **Coursework.** Normally, completion of **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.
- 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.
- Students have the option of completing an emphasis in Analytics; Biomedical Engineering; Communications; Computer Engineering; Electromagnetics; Electronics; Energy Systems; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Identity, Privacy and Security (IPS); Photonics; Robotics; Sustainable Energy; or Systems Control as part of their degree program. Please see details in the Electrical and Computer Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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

- 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.
- **Coursework.** Normally, completion of **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.
- 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.
- Students have the option of completing an emphasis in Analytics; Biomedical Engineering; Communications; Computer Engineering; Electromagnetics; Electronics; Energy Systems; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Identity, Privacy and Security (IPS); Photonics; Robotics; Sustainable Energy; or Systems Control as part of their degree program. Please see details in the Electrical and Computer Engineering MSc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Part-Time Option

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

- Students normally complete the requirements in nine sessions (three years). They are limited to four half courses per year and two half courses per session.
- **Coursework.** Normally, completion of **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.
- 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.
- Students have the option of completing an emphasis in Analytics; Biomedical Engineering; Communications; Computer Engineering; Electromagnetics; Electronics; Energy Systems; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Identity, Privacy and Security (IPS); Photonics; Robotics; Sustainable Energy; or Systems Control as part of their degree program. Please see details in the Electrical and Computer Engineering MSc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

Electrical and Computer Engineering: Electrical and Computer Engineering PhD

Doctor of Philosophy

Program Description

The PhD program is designed for exceptional individuals who intend to pursue a career in fundamental or applied research.

Applicants may enter the PhD program via one of three routes: 1) following completion of the University of Toronto master's degree in Electrical and Computer Engineering or its equivalent from a recognized university; 2) transfer from the University of Toronto MSc program; or 3) direct entry for exceptionally qualified students with an appropriate bachelor's degree from a recognized university.

PhD Program

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 for applicants with a 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.
- The department must be satisfied of the student's ability to do advanced research before admission may be granted.

Program Requirements

- **Coursework.** 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.
- During Year 1, each student must:
 - pass a **qualifying oral examination** in the area of research;
 - attend the ECE Colloquium;
 - complete JDE 1000H *Ethics in Research* (0.0 FCE) if they have not already done so in a previous University of Toronto master's program.
- **Thesis.**
- Students have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Electrical and Computer Engineering MASc, MEng, PhD Emphases section.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Admission may be granted to applicants via transfer from the MASc to the PhD program, upon completion of 2.5 graduate full-course equivalents (FCEs) with an overall average of at least B+.

Program Requirements

- **Coursework.** 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 Year 1, each student must:
 - pass a **qualifying oral examination** in the area of research;
 - attend the ECE Colloquium;
 - complete JDE 1000H *Ethics in Research* (0.0 FCE) if they have not already done so in a previous University of Toronto master's program.
- **Thesis.**
- Students have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Electrical and Computer Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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 direct entry for exceptionally qualified students with an appropriate bachelor's degree from a recognized university.
- The department must be satisfied of the student's ability to do advanced research before admission may be granted.

Program Requirements

- **Coursework.** Students must complete **4.0 graduate full-course equivalents (FCEs)**.
- During Year 1, each student must:
 - pass a qualifying oral examination in the area of research;
 - attend the ECE Colloquium;
 - complete JDE 1000H *Ethics in Research* (0.0 FCE) if they have not already done so in a previous University of Toronto master's program.
- **Thesis.**
- Students have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Electrical and Computer Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

Electrical and Computer Engineering: Electrical and Computer Engineering MAsc, MEng, PhD Emphases

Emphasis: Analytics (MEng only)

To be admitted to the emphasis in Analytics, MEng students must first successfully complete a **prerequisite course APS 1070H (0.5 full-course equivalent [FCE])**.

Subsequently, to earn the emphasis, students must successfully complete **four additional half courses (2.0 FCEs)** from the list of core courses or elective courses. These must include at least one core course; the remaining courses must be selected from the list of elective courses. Students must have completed the prerequisite course APS 1070H before taking any of the core courses.

Prerequisite Course

APS 1070H *Foundations of Data Analytics and Machine Learning*

Core Courses

CHE 1147H *Data Mining in Engineering*
ECE 1513H *Introduction to Machine Learning* (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1504H)
MIE 1624H *Introduction to Data Science and Analytics*
MSE 1065H *Application of Artificial Intelligence in Materials Design* (exclusion: MSE 1063H)

Elective Courses

APS 502H, APS 1005H, APS 1017H, APS 1022H, APS 1040H, APS 1050H, APS 1051H, APS 1052H, APS 1053H, CHE 507H, CHE 1108H, CHE 1148H, CHE 1434H, CIV 1504H, CIV 1506H, CIV 1507H, CIV 1532H, CIV 1538H, ECE 537H, ECE 1504H (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1513H), ECE 1505H, ECE 1657H, ECE 1778H, ECE 1779H, MIE 562H, MIE 1413H, MIE 1501H, MIE 1512H, MIE 1513H, MIE 1620H, MIE 1621H, MIE 1622H, MIE 1623H, MIE 1628H, MIE 1653H, MIE 1721H, MIE 1723H, MIE 1727H, MSE 1063H (exclusion: MSE 1065H).

Emphasis: Biomedical Engineering (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- Any JEB 14XXH course
- ECE 1774H *Sensory Cybernetics*
- ECE 2500Y *MEng Project* (topic in biomedical engineering; counts as one course towards the emphasis)

Students may include other biomedical engineering-related courses subject to the approval of the ECE Associate Chair for Graduate Studies.

Emphasis: Communications (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 537H *Random Processes*
- Any ECE 15XXH course
- ECE 2500Y *MEng Project* (topic in communications; counts as one course towards the emphasis).

Emphasis: Computer Engineering (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 516H *Intelligent Image Processing*
- ECE 532H *Digital Systems Design*
- ECE 540H *Optimizing Compilers*
- ECE 552H *Computer Architecture*
- ECE 568H *Computer Security*
- Any ECE 17XXH course
- ECE 2500Y *MEng Project* (topic in computer engineering; counts as one course towards the emphasis).

Emphasis: Electromagnetics (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- Any ECE 12XXH course
- ECE 2500Y *MEng Project* (topic in electromagnetics; counts as one course towards the emphasis).

Emphasis: Electronics (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 530H *Analog Integrated Circuits*
- Any ECE 13XXH course
- ECE 2500Y *MEng Project* (topic in electronics; counts as one course towards the emphasis).

Emphasis: Energy Systems (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 510H *Introduction to Lighting Systems*
- ECE 514H *Power Electronics: Converter Topologies*
- ECE 533H *Power Electronics*
- Any ECE 10XXH course

- ECE 2500Y MEng Project (topic in energy systems; counts as one course towards the emphasis).

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcripts should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Identity, Privacy and Security (IPS) (MEng only)

MEng students must successfully complete four half courses (2.0 full-course equivalents [FCEs]) as follows:

- JIE 1001H/ECE 1518H *Seminar in Identity, Privacy, and Security* (0.5 FCE)
- Two courses (1.0 FCE) from:
 - ECE 568H, ECE 1517H, ECE 1529H, ECE 1776H, ECE 1778H
- And one course (0.5 FCE) from:
 - INF 2124H, INF 2181H, INF 2241H.

Emphasis: Photonics (MEng only)

MEng students must successfully complete at least four courses from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 527H *Photonic Devices*
- Any ECE 14XXH course
- ECE 2500Y *MEng Project* (topic in photonics; counts as one course towards the emphasis).

Emphasis: Robotics (MASc, MEng, PhD)

Students must successfully complete **four courses (2.0 full-course equivalents [FCEs])** chosen from at least two of the following groups, and no more than two in any given group:

Group 1: Planning and Control

AER 1516H, AER 1517H, ECE 557H (exclusion: ECE 410H), ECE 1619H, ECE 1635H, ECE 1636H, ECE 1647H, ECE 1653H, ECE 1657H, MIE 1064H, MIE 1068H.

Group 2: Perception and Learning

AER 1513H, AER 1515H, CSC 2503H, CSC 2506H, CSC 2515H, CSC 2541H, CSC 2548H, ECE 516H, ECE 521H, ECE 1511H, ECE 1512H, JEB 1433H, ROB 501H.

Group 3: Modelling and Dynamics

AER 1503H, AER 1512H, AER 506H, JEB 1444H, MIE 1001H.

Group 4: Systems Design and Integration

AER 525H (exclusion: ECE 470H), AER 1216H, AER 1217H, CSC 2621H, MIE 505H, MIE 506H, MIE 1070H, MIE 1075H, MIE 1809H, ROB 1514H.

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A **thesis** towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- **Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H, CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H, ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE 1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H, MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H, MIE 1240H, MIE 1241H, MIE 1715H, MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

Emphasis: Systems Control (MEng only)

MEng students must successfully complete **at least four courses** from those listed below. Students may double-count one course at most towards any ECE emphasis.

- ECE 557H *Systems Control*
- Any ECE 16XXH course
- ECE 2500Y *MEng Project* (topic in systems control; counts as one course towards the emphasis).

Electrical and Computer Engineering: Electrical and Computer Engineering MAsc, MEng, PhD Courses

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 1066H	Design of High-Frequency Switch-Mode Power Supplies (SMPS)
ECE 1068H	Introduction to EMC
ECE 1085H	Power System Optimization
ECE 1086H	Power Management for Photovoltaic Systems
ECE 1094H	Power System Operations and Economics

Electromagnetics

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 1254H	Modeling of Multiphysics Systems
ECE 1255H	Special Topics in Electromagnetics
ECE 1256H	Microwave Circuits

Electronics

ECE 534H	Integrated Circuit Engineering
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 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 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
ECE 1396H	Analog Signal Processing Circuits
ECE 1397H	Analog Integrated Circuits
ECE 1398H	VLSI Technology

Biomedical Engineering

JEB 1365H	Ultrasound: Theory and Applications in Biology and Medicine
JEB 1433H	Medical Imaging
JEB 1444H	Neural Engineering
JEB 1447H	Sensory Communications
MIE 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	Solar Energy Capture and Storage in Natural and Engineered Systems
ECE 1477H	Optical Interconnects
ECE 1478H	Lasers and Detectors

Communications

ECE 537H	Random Processes
ECE 1501H	Error Control Codes
ECE 1502H	Information Theory
ECE 1503H	Graphs, Error-Correction Coding, and Inference
ECE 1504H	Statistical Learning (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, and ECE 1513H)
ECE 1505H	Convex Optimization
ECE 1508H	Special Topics in Communications
ECE 1511H	Signal Processing
ECE 1512H	Digital Image Processing and Applications
ECE 1513H	Introduction to Machine Learning (prerequisites: STA 286H or ECE 302H or equivalent; exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, and ECE 1504H)
ECE 1517H	Biometric Systems
ECE 1518H	Seminar in Identity, Privacy, and Security
ECE 1520H	Data Communications I
ECE 1521H	Detection and Estimation Theory
ECE 1522H	Data Communications II

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 Planning
ECE 1548H	Advanced Network Architectures
ECE 1549H	Stochastic Networks
ECE 1552H	Modern Mobile Air Interfaces (prerequisite: ECE 316H)

Systems Control

ECE 557H	Systems Control
ECE 1619H	Linear Geometric Control Theory
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 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 1774H	Sensory Cybernetics
ECE 1776H	Computer Security, Cryptography, and Privacy
ECE 1777H	Computer Methods for Circuit Simulation
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
ECE 1783H	Design Tradeoffs in Digital Systems
ECE 1784H	Trustworthy Machine Learning

Master of Engineering

ECE 1092H	Smart Grid Case Studies
ECE 1093H	Electrical Insulation Design and Coordination
ECE 1095H	Grounding and Bonding
ECE 1394H	Technical Management of Modern IC Design
ECE 1524H	Service Provider Networks
ECE 1551H	Mobile Broadband Radio Access Network (prerequisite: ECE 316H; exclusion: ECE 1508H)
ECE 1779H	Introduction to Cloud Computing
ECE 2500Y	Master of Engineering Project

Reading Course

ECE 1001H	Readings in Cognate Subjects
-----------	------------------------------

APS Engineering Course

APS 1012H	Managing Business Innovation and Transformational Change
APS 1041H	Inventrepreneurship (Invention and Entrepreneurship)
APS 1070H	Foundations of Data Analytics and Machine Learning

English

English: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

English

MA

- 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

PhD

- 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

Combined Degree Programs

- [STG, Law, JD / English, MA](#)

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - English, MA, PhD
- [Diaspora and Transnational Studies](#)
 - English, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - English, PhD
- [Jewish Studies](#)
 - English, MA, PhD
- [Sexual Diversity Studies](#)
 - English, MA, PhD
- [South Asian Studies](#)

- English, MA, PhD
- [Women and Gender Studies](#)
 - English, MA, PhD
- [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 specializations.

Contact and Address

Web: www.english.utoronto.ca
 Email: deptofenglish.graduate@utoronto.ca
 Telephone: (416) 978-2526
 Fax: (416) 978-2836

Department of English
 University of Toronto
 Jackman Humanities Building
 6th Floor, 170 St. George Street
 Toronto, Ontario M5R 2M8
 Canada

English: Graduate Faculty

Full Members

Ackerman, Alan - BA, MA, PhD
 Akbari, Suzanne - BA, MA, MPH, PhD
 Bewell, Alan - BA, MA, PhD
 Bolus-Reichert, Christine - BPhil, AM, PhD
 Boyagoda, Randy - PhD
 Clarke, George Elliott - BA, MA, PhD
 Cobb, Michael - BA, MA, AM, PhD
 Cruz, Denise - BA, MA, 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
 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
 Knight, Mark - BA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Lamb, Susan - BA, AM, DA
 Larson, Katie - BMus, AB, MPH, PhD

Leonard, Garry - BA, MA, PhD
 Levene, Mark - BA, MA, PhD
 Li, Hao - BA, PhD
 Li, Victor - BA, MA, PhD
 Lopez, Jeremy - BA, MA, DPhil
 Lynch, Deidre - BA, PhD
 Magnusson, Lynne - 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
 Percy, Carol - BA, MA, DPhil
 Quayson, Ato - BA, PhD
 Radovic, Stanka - PhD
 Robins, William - BA, MPH, PhD
 Rubright, Marjorie - AB, MA, DLitt
 Ruti, Mari - BA, MA, PhD
 Salih, Sara - BA, DPhil
 Schmitt, Cannon - BA, MA, PhD (**Director of Graduate Studies**)
 Seidler, Dana - BA, MA, PhD
 Stern, Simon - BA, PhD, JD
 Stevens, Paul - BA, MA, PhD (**Chair and Graduate Chair**)
 Suzack, Cheryl - BA, BE, MA, PhD
 Switzky, Lawrence - BA, MA, PhD
 Syme, Holger Schott - BA, AM, PhD
 Vernon, Karina Joan - BA, MA, PhD
 Warley, Christopher - BA, MA, DPhil
 Weisman, Karen - BA, PhD
 White, Dan - BA, AM, DPhil
 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
 Cameron, Elspeth - BA, MA, PhD
 Chambers, Douglas - PhD
 Cook, Eleanor - PhD
 Cuddy-Keane, Melba - BA, MA, PhD
 Domville, Eric William - BA, PhD
 Duffy, Dennis - AB, MA, PhD
 Dutka, JoAnna - BA, MA, PhD, ARCT
 Galbraith, David - MA, PhD
 Halewood, William - AB, MA, PhD
 Hayne, Barrie - BA, AM, PhD
 Healey, Antonette - BA, MA, PhD
 Johnston, Alexandra - PhD
 Klausner, David - AB, PhD
 Lancashire, Anne - BA, AM, PhD
 Lancashire, Ian - BA, MA, PhD
 Leggatt, Alexander - BA, MA, PhD
 Matus, Jill - BA, MA, PhD
 McLeod, Randall - AB, MA, PhD
 Millgate, Michael - BA, MA, PhD
 Parker, Brian - PhD
 Reibetanz, John - BA, MA, PhD
 Saddlemyer, Ann - PhD, DLitt
 Sidnell, Michael - BA, MA, PhD
 Townsend, David Robert - BA, MA, PhD
 Vicari, E. Patricia - BA, MA, PhD
 Visser, Colin - BA, BLitt, PhD

Warkentin, Germaine - PhD

Associate Members

Aguila-Way, Tania - BA, MA, PhD
 Baker, Deirdre - BA, MA, PhD
 Blayney, Peter - BA, PhD
 Chakravarty, Urvashi - BA, PhD
 Dancer, Thom - MA, PhD
 Dooley, Ann - BA, MA, PhD
 Gniadek, Melissa - AB, MA, MA, PhD
 Hammond, Adam - BA, MA, PhD
 Mehta, Rijuta - BA, MA, MA, PhD
 Michelet Pickavé, Fabienne L. - MPH, LèsL, LittD
 Newman, Daniel - DLitt
 Raza Kolb, Anjuli - BA, MPH, MA, PhD
 Robinson, Terry - BA, MA, PhD
 Teramura, Misha - BA, AM, PhD
 Tysdal, Daniel - BA, MA
 Williams, Katherine - BA, MA, PhD
 Wilson, Sarah - BA, MA, PhD

English: English MA

Master of Arts

Program Description

The Master of Arts program offers broad coverage in British, Canadian, Aboriginal, American, and postcolonial literatures, a sophisticated command of current theoretical approaches, and exceptional preparation and intellectual support for significant research.

The MA in English degree program is offered in 10 fields: 9 fields have the same requirements, while the field of Creative Writing has different requirements.

The MA program can be taken on a full-time or part-time basis except in the Creative Writing field, which is taken on a full-time basis only. Requirements for the Creative Writing field are described in a separate section below.

Fields:

1) American Literature; 2) Aspects of Theory; 3) Canadian Literature; 4) Medieval Literature; 5) Renaissance Literature; 6) Restoration and Eighteenth-Century Literature; 7) Romantic and Victorian Literature; 8) Twentieth and Twenty-First Century British and Irish Literature; 9) 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.

- A minimum of 7 full-year undergraduate courses in English or the equivalent in half-year courses (i.e., 14), or any combination of full- and half-year courses that add up to the equivalent of 7 full-year courses.
- An appropriate bachelor's degree (i.e., a four-year undergraduate degree), or its equivalent (preferably in English), with a minimum grade point average (GPA) of B+ 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. See details about the [writing sample](#).
- 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

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - ENG 6999Y *Critical Topographies: Theory and Practice of Contemporary Literary Studies in English* (1.0 FCE)
 - 3.0 approved graduate FCEs in English.
- Students must attain a B standing in each graduate course.

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

Field: Creative Writing

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.
- A minimum of 7 full-year undergraduate courses in English or the equivalent in half-year courses (i.e., 14), or any combination of full- and half-year courses that add up to the equivalent of 7 full-year courses.
- An appropriate bachelor's degree (i.e., a four-year undergraduate degree), or its equivalent (preferably in English), with a minimum grade point average (GPA) of B+ 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. See details about the [writing sample](#).
- A portfolio consisting of 20 to 25 pages of prose (drama, fiction, or creative non-fiction), and/or poetry. See details about the format of [creative writing portfolio submissions](#).
- 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

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - ENG 6950Y *Workshop in Creative Writing* (1.0 FCE). All students must complete the Workshop in Creative Writing in Year 1 of their program.
 - 2.0 approved FCEs in English.
- Students must attain a B standing in each graduate course.
- Supervised **Writing Project** (the equivalent of a thesis). Upon completion of coursework, students undertake a book-length Writing Project in a genre of their 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

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

Time Limit

3 years full-time

English: English PhD

Doctor of Philosophy

Program Description

The Doctor of Philosophy program offers broad coverage in British, Canadian, Aboriginal, American, and postcolonial literatures, a sophisticated command of current theoretical approaches, and exceptional support for significant research projects.

Applicants are admitted through one of two routes: 1) a masters' degree in English, 2) in exceptional cases, an appropriate bachelor's degree (direct entry).

Fields:

1) American Literature; 2) Aspects of Theory; 3) Canadian Literature; 4) Medieval Literature; 5) Renaissance Literature; 6) Restoration and Eighteenth-Century Literature; 7) Romantic and Victorian Literature; 8) Twentieth and Twenty-First Century British and Irish Literature; 9) World Literatures in English

PhD Program

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.
- Normally, applicants have a master's degree in English from a recognized university, with an average grade equivalent to at least a University of Toronto A– in the applicant's overall program.
- Applicants must satisfy the department that they are capable of independent research in English at an advanced level.
- 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.
 - ENG 8000H *Texts, Theories, and Archives* (0.5 FCE) unless this or an equivalent course has already been taken

- ENG 9500H *Professional Development* (0.5 FCE)
- ENG 9900H *Professing Literature* (0.5 FCE)
- 3.0 additional FCEs in English, as approved by the department.

- Every student must select at least 2.0 FCEs outside the chosen field of study in the course of their graduate training. The student is encouraged to combine these courses into 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 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 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*
 - ENG 6365H *Diasporic Englishes*.
- Alternatively, the requirement can be satisfied by taking a special examination in Old English.

Language Requirement

- Demonstrated reading knowledge of French by May 31 of Year 3 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.

Special Fields Examination

- Students are required to pass a Special Fields Examination. The examination has three components:
 - a written examination, based on a reading list 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 who enter the PhD program with a master's degree generally take the Special Fields Examination no later than the end of the second session of Year 2. A second attempt of the Special Fields 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 Year 3 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 Year 2 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 Year 2 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- In exceptional cases, applicants with 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 may be considered for admission (direct entry).
- 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 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** as follows:
 - ENG 6999Y *Critical Topographies: Theory and Practice of Contemporary Literary Studies in English* (1.0 FCE)
 - ENG 8000H *Texts, Theories, and Archives* (0.5 FCE)
 - ENG 9500H *Professional Development* (0.5 FCE)
 - ENG 9900H *Professing Literature* (0.5 FCE)
 - 5.0 additional FCEs in English, as approved by the department. The student must complete ENG 6999Y plus 2.0 FCEs in Year 1 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 Year 3 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.
 - select at least 2.0 FCEs outside the chosen field of study. The student is encouraged to combine these courses in a minor field.
- 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 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*
 - ENG 6365H *Diasporic Englishes*.
- Alternatively, the requirement can be satisfied by taking a special examination in Old English.

Language Requirement

- Demonstrated reading knowledge of French by May 31 of Year 4 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.

Special Fields Examination

- Students are required to pass a Special Fields Examination. The examination has three components:
 - a written examination, based on a reading list 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.
- Direct-entry students generally take the Special Fields Examination no later than the end of the second session of Year 3. A second attempt of the Special Fields 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 Year 4 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 Year 3 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 Year 3 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

5 years

Time Limit

7 years

English: English MA, PhD Courses

The following list of possible courses is subject to revision; further information, including course descriptions and timetables, are posted on the [Department of English website](#) and 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 1007H	Medieval Drama: Morality Plays
ENG 1009H	Writing the Nation: Pre-modern Historiographies
ENG 1011H	Economies of Medieval Drama: East Anglia, Kent, Sussex
ENG 1013H	Women in Medieval Literature: Image and Author
ENG 1025H	Globalization and the Religious Other in Medieval Literature
ENG 1027H	Constructions of the Other in Medieval Literature
ENG 1093H	Medieval Vernacular Book
ENG 1333H	Reception of the Classics in Middle English Literature
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 2008H	The Early Modern in the History of Science and Literature
ENG 2016H	The Queer Renaissance: Queer Studies, Early Modern Texts
ENG 2018H	A Royal Society of Their Own: Early Modern Lit/Sci/Phil
ENG 2019H	Early Modern Psyches: Shakespeare and Psychoanalysis
ENG 2050H	John Donne's Poetic Inhabitations
ENG 2054H	John Donne: Theory and Context
ENG 2222H	The Renaissance of Art
ENG 2226H	Early Modern Manuscripts
ENG 2230H	Discourses of Colonialism and Early Modern Literature
ENG 2280H	Mimesis and Representation: Studies in Renaissance Texts
ENG 2282H	Ben Jonson
ENG 2288H	Renaissance Keywords

ENG 2467H	Early Modern Nationalism and Milton's England
ENG 2470H	Milton, Globalism, and the Post-national
ENG 2472H	Milton
ENG 2505H	Shakespeare's Sonnets: Texts and Contexts
ENG 2510H	Shakespeare and the Renaissance Schoolroom
ENG 2533H	Shakespeare's Language
ENG 2535H	Shakespeare and his Contemporaries
ENG 2794H	Staging and the Meaning of Early Modern Drama
ENG 2960H	What's Metaphysical About Metaphysical Poetry?
ENG 3041H	Acting Theory and Practice Before Stanislavsky
ENG 3066H	Literatures of British Enlightenment
ENG 3070H	Laurence Sterne
ENG 3073H	Richardson's Clarissa: Fiction, Contexts, and Criticism
ENG 3251H	Varieties of (18th-Century) Religious Experience
ENG 3252H	The Postsecular Eighteenth Century
ENG 3254H	Fielding and Hogarth
ENG 3255H	Fielding's Tom Jones
ENG 3301H	The Social Life of Feeling in Eighteenth-Century Literature
ENG 3332H	Eighteenth-Century Tragedy and its Discontents
ENG 3707H	Literature and Censorship, 1660–1830
ENG 3900H	The Circum-Atlantic Novel: Utopia to Mansfield Park
ENG 4170H	Extravagant Styles: Romanticism, Orientalism, and the Gothic
ENG 4199H	Vulgar Tongues: Antiquarianism, Slang, and Slumming in the Romantic Era
ENG 4211H	Romanticism and Translation
ENG 4212H	Romanticism and Catastrophe
ENG 4222H	Romanticism and Mobility
ENG 4224H	Early Nineteenth-Century Environmental Literature
ENG 4235H	Keats: The Poet and His World
ENG 4262H	Realism and the Sociological Impulse
ENG 4266H	Redemptive Realism: The Victorian Novel
ENG 4501H	Victorian Fiction and the Fragility of the Social
ENG 4502H	Decadent / Pastoral / Fin-de-Siècle
ENG 4504H	Darwin and Literature
ENG 4622H	Brontë and Dickens
ENG 4626H	Literature, Politics, Revolution: Morris and Kingsnorth
ENG 4662H	Romantic Memory
ENG 4664H	Romantic Pastoral Revisited
ENG 4770H	Aesthetics and Ethics: the Late Victorians
ENG 4741H	Victorian Lyric
ENG 4756H	Class and the Victorian Novel
ENG 4801H	Aging and Older Age in the Nineteenth-Century British Novel
ENG 4808H	Public Health Stories: Writing Illness in 19th-Century Britain
ENG 4856H	Character in 19th-Century Fiction
ENG 4879H	Christianity in Victorian Literature
ENG 4884H	Everyday Life and 19th-Century Novelistic Representation
ENG 4903H	Herman Melville's Democratic Navigations
ENG 4973H	Marx and the American Renaissance
ENG 4987H	Novelties of the Sublime in Modern Poetry

ENG 5005H	Modern Poetry and Philosophy
ENG 5006H	Modernism and the Politics of Form
ENG 5020H	#BlackLivesMatter: Contemporary Black Canadian Literature
ENG 5021H	Black Forms: Critical Race Theory and Diasporic Literature
ENG 5022H	Race, Psychoanalysis, and American Literature
ENG 5030H	The Child at the Social Limit in Contemporary US Fiction
ENG 5042H	Justice and Form in Contemporary Canadian Ecopoetry
ENG 5046H	Settler Colonialism and US Literary Studies
ENG 5049H	Liberalism, Community, 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 5052H	Nineteenth-Century American Literature and Industrial Revolution
ENG 5056H	Studies in the 21st-C. Novel: Zadie Smith and David Mitchell
ENG 5062H	The Rise of the Transnational American Novel
ENG 5064H	Duplicators: The DIY Ethic and DIY Aesthetics in C20-21 Lit
ENG 5066H	Realism in the Time of the Anthropocene
ENG 5075H	Aesthetics of Struggle: Revolution, Fugitivity, Survival
ENG 5130H	Oceanic Modernisms: The Sea and Modernist British Literature
ENG 5141H	Staging Environmental Crisis in 21st-Century Canadian Lit
ENG 5150H	British Modernism, 2004–Present
ENG 5200H	Woolf/Beckett/Coetzee
ENG 5253H	Simply Divine! The Novels of Evelyn Waugh and Graham Greene
ENG 5254H	E. M. Forster and His Legacies
ENG 5279H	Class and Community in Postwar American Literature
ENG 5281H	Whitman and Nationalism 1855-1891/2
ENG 5288H	American Literature: Temporality Studies
ENG 5300H	Avant-Garde Aesthetics and Politics in Contemporary Poetry
ENG 5313H	Poets and Playwrights: Eliot, Stein, Auden
ENG 5317H	Amorous Americans: Sexuality and the United States Novel
ENG 5318H	Broken and Depressed: The American 1930s ` Then and Now
ENG 5464H	Archipelagic American Studies
ENG 5524H	Modernism, Modernity and the Crisis in Temporality
ENG 5526H	Monuments of Modernism
ENG 5540H	Modernism and its Media: Fiction and Theatre in an Age of Film and Radio
ENG 5555H	Archived Toronto: Literary and Cultural Tracings
ENG 5580H	American Pastoral: Agriculture and Environment in Literary Imagination
ENG 5610H	Space and the Education of Desire: Postcolonialism and Diaspora
ENG 5717H	The CanLit Boom of the 1960s
ENG 5718H	The Books of Coach House Press

ENG 5731H	Transitional Justice and Indigenous Writing in Canada
ENG 5732H	Visual Sovereignty and the Politics of Reconciliation
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 5799H	Settler-Colonialism and American Indian Writing
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 5851H	Faulkner and the American South
ENG 5854H	The Global South
ENG 5905H	Introduction to African-Canadian Literature
ENG 5906H	Black Pulp Fiction (& Non-Fiction)
ENG 5963H	James Joyce: Modernism, Modernity, Mythology
ENG 5968H	Actuality, Documentary, Reality
ENG 5988H	Posthuman Encounters in Contemporary Canadian Literature
ENG 5991H	Postcolonial Tragedies: Theory, Literature, Criticism
ENG 6010H	Bad Feelings: Between Affect Theory and Psychoanalysis
ENG 6011H	Love and Desire in a Time of Crisis
ENG 6012H	Forms of Disability
ENG 6014H	Adapting Short Fiction
ENG 6015H	Experimental Narrative and/as Narrative Theory
ENG 6006H	The Age of Anxiety: Theory, Affect, Politics
ENG 6029H	Faithful Reading: Interpretation, Christianity, and Poetry
ENG 6032H	The Victorian Novel, Literally
ENG 6034H	Old and New Materialisms
ENG 6038H	Authors and Their Institutions
ENG 6044H	The Literature of Protection
ENG 6049H	Intersections/Interventions: Diaspora Studies Today
ENG 6054H	Construals of the Self: Autobiography in Africa and the Diaspora
ENG 6063H	Novel Theory Now
ENG 6064H	The Theory of the Novel
ENG 6065H	Repetition in Modern Thought and Culture
ENG 6066H	Style: Authorial Signature in the Age of Cyber Technology
ENG 6068H	Restaging Shame
ENG 6070H	Making Faces: Identity, Performance, and the Face on Film
ENG 6100H	Reading Walter Benjamin
ENG 6152H	Drama After Performance
ENG 6159H	Poststructuralist Poetics
ENG 6160H	Politics and Poetic Form
ENG 6162H	The Poetics of Melancholy
ENG 6163H	The Fate of Culture in an Age of Globalization
ENG 6171H	Writing a Journal Article
ENG 6181H	Permaculture and Literature

ENG 6182H	Eating Well
ENG 6199H	Collectivity
ENG 6271H	Comedies of Capitalism
ENG 6362H	History and Structure of the English Language: Post-1500
ENG 6365H	Diasporic Englishes
ENG 6490H	The Postcritical Turn
ENG 6494H	Psychogeography and the Mapping of Literary Space
ENG 6498H	Dystopian Fiction and Unsettled Space
ENG 6499H	Space in Postcolonial Literature
ENG 6501H	Life, Death, and American Fiction
ENG 6510H	Creative Nonfiction
ENG 6517H	Walter Benjamin and His Contemporaries
ENG 6519H	Postcolonial Theory and the World Literature Debates
ENG 6521H	Literature and Medicine: Corpus, Theory, Praxis
ENG 6526H	Postcolonial Poetry
ENG 6529H	Critical Animal Studies
ENG 6533H	The Art of Mourning
ENG 6540H	The Victorian Novel, Literally
ENG 6551H	Asian North American Literature: National and Transnational Feminisms
ENG 6552H	Law and Literature
ENG 6553H	Law as Literature: Story and Style in a Culture of Argument
ENG 6815H	Artificial Persons
ENG 6818H	Social Robots in the Cultural Imagination
ENG 6847H	From CanLit to Canlits: The Re-formation of a Literature
ENG 6890H	Reading Auerbach's Mimesis
ENG 6950Y	Workshop in Creative Writing
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
JLE 5220H	Tricksters and Confidence Men
JLE 5225H	The Passage from History to Fiction

European, Russian, and Eurasian Studies

European, Russian, and Eurasian Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

European and Russian Affairs

MA

Combined Degree Programs

- [STG, Law, JD / European and Russian Affairs, MA](#)

Collaborative Specializations

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

- [Ethnic and Pluralism Studies](#)
 - European and Russian Affairs, MA
- [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: munkschool.utoronto.ca/ceres
 Email: katia.malyuzhinets@utoronto.ca
 Telephone: (416) 946-8962
 Fax: (416) 946-8939

Centre for European, Russian, and Eurasian Studies
 Munk School of Global Affairs & Public Policy
 University of Toronto
 Room 127N, 1 Devonshire Place
 Toronto, Ontario M5S 3K7
 Canada

European, Russian, and Eurasian Studies: Graduate Faculty

Full Members

Austin, Robert - BA, MA, PhD (**Graduate Coordinator**)
 Bergen, Doris - MA, PhD
 Braun, Aurel - BA, MA, PhD
 Fenner, Angelica - BA, MA, PhD
 Goetschel, Willi - PhD
 Hansen, Randall - BA, MPH, PhD, CRC
 Knop, Karen - BSc, LLB, LLM, SJD
 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
 Ornston, Darius - BA, MA, PhD
 Orwin, Donna - PhD
 Ostapchuk, Victor - BA, PhD
 Pruessen, Ronald - BA, MA, PhD
 Retallack, James - BA, DPhil
 Smith, Alison - AM, PhD
 Soldovieri, Stefan - BA, MA, PhD
 Stock, Markus - MA, PhD
 Subtelny, Maria - BA, PhD
 Tarnawsky, Maxim - BA, PhD
 Triadafilopoulos, Triadafilos - BA, MA, 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

Members Emeriti

Johnson, Robert - BA, PhD
 Perron, Paul - PhD
 Solomon, Peter - BA, MA, PhD
 Solomon, Susan - BA, MA, PhD

Associate Members

Cohen, Paul - AM, PhD
 Gunitskiy, Vsevolod - BA, MA, MPH, PhD
 Hartblay, Cassandra Sarah - BA, MA, PhD
 Jennings, Eric - BA, MA, PhD

Kahraman, Filiz - BA, MA, PhD
 Kalmar, Ivan - BA, MA, PhD
 Kasekamp, Andres - PhD
 Korteweg, Anna - BA, MA, PhD
 Light, Matthew - BA, MA, JD, PhD
 Manger, Mark - DrRerPol
 Reisenbichler, Alexander - BA, MA, PhD
 Schatz, Edward - PhD (**Director**)
 Shternshis, Anna - MA, PhD
 Topouzova, Lilia - BA, MA, PhD
 Way, Lucan Alan - BA, PhD
 Wilson, David - BA, MA, PhD

European, Russian, and Eurasian Studies: European, Russian, and Eurasian Studies MA

Master of Arts

Program Description

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 graduate students considering any PhD-level study with a specialization in the European and Russian areas.

The MA in European and Russian Affairs offers students:

- the opportunity to study at the leading research university in Canada;
- the chance to work with outstanding faculty in a wide range of disciplines with a research specialization on Europe, Russia, and Eurasia;
- internships, exchanges, summer study programs, and research experience in the region;
- access to one of North America's largest research libraries;
- participation in the rich academic programs of the Centre for European, Russian, and Eurasian Studies and the Munk School of Global Affairs and Public Policy including specialized graduate workshops and courses offered by visiting professors;
- a strong and vibrant learning community with individualized academic and financial support;
- leadership roles in graduate student conferences, blogs, and journals.

The program requires a minimum of two academic years of full-time graduate study. For further information about graduate programs and study grants, please contact the Graduate Coordinator.

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. Preferably, 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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 2.0 FCEs in the chosen primary discipline; for example, History or Political Science.
 - 2.0 FCEs must be drawn from any discipline(s) relating to the student's course of study other than the chosen primary discipline. Students can take courses in any department, with the approval of the instructor and Graduate Coordinator, provided that the student submits coursework related to the region.
 - ERE 2001H (0.5 FCE), taken in Year 1 of the program.
 - ERE 2000Y (1.0 FCE), 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 10,000 to 12,000 words including references, based on original research.
 - 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

European, Russian, and Eurasian Studies: European, Russian, and Eurasian Studies MA Courses

Not all courses are offered every year. Consult the centre and individual departments for course availability. Consult the centre's Graduate Coordinator for course credit eligibility. The notation (PR) following a course indicates the course has a prerequisite.

Required

ERE 2000Y	Research Seminar
ERE 2001H	Gateway Proseminar in European, Russian, and Eurasian Studies

Elective

ERE 1151H	European Studies
ERE 1161H	Topics in Russian and Eurasian Studies
ERE 1162H	Topics in the Caucasus
ERE 1165H	International Internship (Credit/No Credit)

ERE 1186H	The Past As Prologue: East Central and Southeastern Europe in the Interwar Period
ERE 1195H	Topics in Ukraine and Eastern Europe
ERE 1197H	Reading Course
ERE 1198H	Reading and Research I
ERE 1199H	Reading and Research II

Anthropology

For a full listing of courses, see the [Anthropology](#) entry in this calendar.

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
COL 5047H	The Two Avant-Gardes
JGC 1855H	Critical Theory in Context: The German-French Connection
JHL 1282H	Comparative Totalitarian Culture
JLV 5134H	Theories of the Novel

Criminology and Sociolegal Studies

For a full listing of courses, see the [Criminology and Sociolegal Studies](#) entry in this calendar.

CRI 3220H	Organized Crime and Corruption
CRI 3130H	Policing

Economics

For a full listing of courses, see the [Economics](#) entry in this calendar.

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 1722H	Kafka
GER 1780H	Topics in German Visual Culture
GER 6000H	Reading German for Graduate Students
JGC 1855H	Critical Theory: The French-German Connection

History

For a full listing of courses, see the [History](#) entry in this calendar.

HIS 1032H	Modernity and Its Visual Cultures
HIS 1200H	Readings in European Intellectual History
HIS 1237H	France: 1870–1968
HIS 1268H	The Holocaust and World War II
HIS 1272H	Topics in Twentieth-Century European History
HIS 1275H	Imperial Germany, 1871–1918
HIS 1281H	History of Real Socialism
HIS 1287H	Polish Jews Since the Partitions of Poland
HIS 1290H	Topics in Imperial Russian History
HIS 1293Y	Kievan Rus'
HIS 1296H	Stalinism and After: Beyond Cold War History
HIS 1805H	Human Rights and Empire (exclusion: HIS 1860H)
JHL 1282H	Comparative Totalitarian Culture
JHP 1289Y	Twentieth-Century Ukraine (joint graduate/undergraduate)

Near and Middle Eastern Civilizations

For a full listing of courses, see the [Near and Middle Eastern Civilizations](#) entry in this calendar.

JNE 2320H	Modern Turkey
-----------	---------------

Political Science

For a full listing of courses, see the [Political Science](#) entry in this calendar.

JHP 2351Y	The People From Nowhere
JRA 2321H	Topics in Comparative Politics
JRA 2337H	Government Law and Politics in Russia
POL 2207H	Topics in International Politics III
POL 2216Y	The Military Instrument of Foreign Policy
POL 2226H	Ethics and International Relations
POL 2240H	Geopolitics of Cyberspace
POL 2256Y	The G8, G20, and Global Governance
POL 2321H	Topics in Comparative Politics I
POL 2326H	Democracy and Dictatorship
POL 2335H	Business and Politics: Power in a Global World

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 1517H	Modern Serbian Bards
SLA 1547H	South Slavic Folklore

Czech and Slovak Literatures

SLA 1610H	V. Havel: Thinker, Politician, Writer
-----------	---------------------------------------

Polish Literature

SLA 1304H	Transgressions: Drama, Theatre, Performance
SLA 1308H	Critical Paradigms in Polish Culture
SLA 1312Y	Modernism and Postmodernism in Polish Literature

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.

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 1218H	Pushkin
SLA 1220H	Nineteenth Century Russian Thinkers
SLA 1225H	Russian Literature in the Age of Empire
SLA 1226H	Dostoevsky in Literary Theory and Criticism
SLA 1228H	Themes in Russian Realism
SLA 1231H	Russian Modernism
SLA 1232H	Russian Symbolism
SLA 1235H	Pasternak
SLA 1238H	Chekhov
SLA 1239H	Vladimir Nabokov
SLA 1240H	Tolstoy
SLA 1410H	Gogol
SLA 1411H	Synthesis of Arts 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

General Slavic

SLA 1010H	Slavic Proseminar
SLA 1039H	Kyiv-Kiev-Kijow: A City and the Text
SLA 1320H	Postcommunism-Postcolonialism-Postdependence: Central and Eastern European Perspectives
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
-----------	----------------------

Financial Economics

Financial Economics: Introduction

Faculty Affiliation

Arts and Science; Management

Degree Programs

Financial Economics

MFE

Overview

The **Master of Financial Economics (MFE)** program is a non-thesis degree program offered by the Department of Economics and the Rotman School of Management. Graduates of the program receive a professional degree called the Master of Financial Economics. 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: mfe.economics.utoronto.ca

Email: mfe@utoronto.ca

Telephone: (416) 978-2678

Master of Financial Economics Program
Department of Economics
University of Toronto
Room 170, 150 St. George Street
Toronto, Ontario M5S 3G7
Canada

Financial Economics: Graduate Faculty

Economics

Aivazian, Varouj - BSc, MA, PhD
Cziraki, Peter - MA, MPH, MSc, PhD
Goldman, Jim - BSc, MSc, PhD
Halberstam, Yosh - BA, MA, PhD
Hussain, Sayed - BA, PhD (**Co-director**)
Melino, Angelo - BA, PhD
Mondria, Jordi - BA, MA, PhD (**Co-director**)
Tian, Xu - BA, MA, PhD
Tsoy, Anton - PhD

Management

Davydenko, Sergei - MSc, MA, PhD
Dyck, Alexander - BA, PhD
McCurdy, Thomas - BA, MA, PhD
Stapleton, Maureen - MBA
Wang, Kevin - BSc, MA, PhD

Financial Economics: Financial Economics MFE

Master of Financial Economics

Minimum 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.
- An appropriate bachelor's degree with at least a mid-B (75%) standing in the final year of the program.
- Successful completion of courses in calculus, intermediate microeconomics, intermediate macroeconomics, and statistics.
- Applicants who do not hold a degree from a Canadian university must submit an official Graduate Record Examination (GRE) General Test score or a Graduate Management Admission Test (GMAT) score. See the [program's website](#) for details.
- Evidence of strong communication skills, both oral and written.
- Relevant work experience and/or previous training in finance is useful but not required.
- Admission is competitive, so accepted applicants will normally have achieved a standing considerably higher than the minimum requirements.

Program Requirements

Students must complete:

- an intensive **mathematics, statistics, and accounting review**.
- **6.0 full-course equivalents (FCEs)** or 12 half courses as follows:
 - 2.0 FCEs from the Department of Economics. These core courses are the same as those required for the MA degree in Economics plus ECO 2503H *Financial Economics I*.
 - 1.5 FCEs from the Rotman School of Management: RSM 2306H *Options and Futures Markets*, RSM 2300H *Corporate Financing*, and RSM 2302H *Security Analysis and Portfolio Management*.
 - 2.5 FCEs in electives from either the Department of Economics or the Rotman School, subject to the condition that at least 1.5 out of the 2.5 elective FCEs must be taken from the Department of Economics.
- a one-session **internship**.

Program Length

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

Time Limit

3 years full-time

Forestry

Forestry: Introduction

Faculty Affiliation

Architecture, Landscape, and Design

Degree Programs

Forest Conservation

MFC

Forestry

MScF and PhD

Collaborative Specializations

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

- [Environmental Studies](#)
 - Forest Conservation, MFC
 - Forestry, MScF, PhD
- [Environment and Health](#)
 - Forest Conservation, MFC
 - Forestry, MScF, PhD

Overview

The Graduate Department of Forestry is a unified group of interdisciplinary, diverse, dedicated, and innovative natural, engineering, and social scientists. Research areas include forest conservation science, forest ecosystem management, forest governance and policy, urban forestry, and biomass utilization for sustainable bio-based materials and chemical products.

The Graduate Department of Forestry provides unique, integrative, and applied education to future leaders in these fields. Its research drives the practices and decisions of current leaders who are tasked with successfully managing the competing demands placed on Ontario's, Canada's, and the world's forests in the context of social and environmental change.

Contact and Address

Web: forestry.utoronto.ca
 Email: forestry@daniels.utoronto.ca
 Telephone: (416) 946-3897

Graduate Department of Forestry
 John H. Daniels Faculty of Architecture, Landscape, and Design
 University of Toronto
 1 Spadina Crescent
 Toronto, Ontario M5S 2J5
 Canada

Forestry: Graduate Faculty

Full Members

Carleton, Terence - BSc, MSc, PhD
 Caspersen, John - BA, PhD (**Graduate Coordinator**)
 James, Patrick - PhD
 Kant, Shashi - BE, MA, PhD
 Krigstin, Sally - MSc, PhD
 Malcolm, Jay - BSc, MSc, 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
 Yan, Ning - BSc, PhD, PEng

Members Emeriti

Aird, Paul - BSc, MS, PhD
 Blake, Terence - DipFor, BScF, STB, MF, PhD
 Bryan, Rorke - BA, PhD
 Hubbes, Martin - PhD
 Kenney, Andrew - BSc, MSc, PhD
 Martell, David - BASc, MASc, PhD
 Nautiyal, Jagdish - BSc, MF, PhD
 Roy, Dibyendu - BSc, MA, DPhil
 Timmer, Victor - BScF, MScF, PhD

Associate Members

Allison, Jeremy D. - PhD
 Bouchier, Robert - BA, MSc, PhD
 Cole, William - BScF, MScF, PhD
 Couto, Laercio - PhD
 de Groot, W.J. - BSc, PhD
 Feng, Martin W. - MSc
 Flannigan, Mike - BSc, MS, PhD
 Johnston, Joshua M. - PhD
 Jones, Trevor A. - BSc, MSc, PhD
 Koven, Anne - PhD
 Kuhlberg, Mark - MA, PhD
 Kuttner, Benjamin - PhD, PhD
 Laaksonen-Craig, Susanna - MSc, PhD
 Lantz, Van - BEc, MEc, PhD
 MacQuarrie, Chris J. K. - PhD
 Maynard, Alex - BA, MA, MPH, PhD
 McKenney, Daniel - BSc, MSc, PhD
 Moola, Faisal - BSc, MSc, PhD
 Nanang, David - BSc, MScF, PhD
 Nelson, Elizabeth - PhD
 Omar Faruk, Abu - PhD
 Puric-Mladenovic, Danijela - PhD, PhD
 Ray, Justina - BS, MS, PhD
 Sastry, Cherla - BSc, MSc, PhD

Singh, Ashbindu - PhD
 Smith, Margaret Anne (Peggy) - BSc, PhD
 Stocks, Brian - BScF, MScF
 Tjong, Jimi - BASc, MASc, PhD
 Wang, Sen - BA, MSc, PhD
 Webster, Kara L. - BSc, MSc, PhD
 Wetzel, Suzanne - BScF, PhD
 Wilson, Edward - BScF, BScF, BMedSc
 Woolford, Douglas - BSc, MMath, PhD

Forestry: Forest Conservation MFC

Master of Forest Conservation

Program Description

The professionally oriented MFC 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 MFC program can be taken on a full-time, extended full-time, or part-time basis.

Full-Time 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 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 department.
- 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. See the [full instructions and forms](#).

Program Requirements

- The program starts in September and requires full-time intensive involvement throughout.
- Successful completion of **7.5 full-course equivalents (FCEs)** as follows:
 - 6.0 required FCEs in FOR courses.
 - 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, in unusual circumstances, another related field course appropriate to the program and approved by the graduate coordinator.
- Expected chronology:

- **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**, in unusual circumstances, alternate eligible field course (0.5 elective FCE)
- **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 (typical registration sequence: F/W/S/F)

Time Limit

3 years

Extended Full-Time 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 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 department.
- 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. See the [full instructions and forms](#).

Program Requirements

- 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 completed in any order except that FOR 3007H must be taken in the final Summer session and FOR 3008H must be taken in the final Fall session.

- Successful completion of **7.5 full-course equivalents (FCEs)** as follows:
 - 6.0 required FCEs in FOR courses
 - 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*
 - 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*
 - FOR 3006H *Case Study Analysis in Forest Management*
 - FOR 3007H *Internship in Forest Conservation*
 - FOR 3008H *Capstone Project in Forest Conservation*
 - 1.5 elective FCEs:
 - Elective course selection will include the successful completion of one field course (0.5 FCE) from either FOR 3011H *International Forest Conservation Field Camp* or FOR 1585H *Urban Forest Conservation Field Camp* or, in unusual circumstances, 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.

Program Length

7 sessions (typical registration sequence: F/W/S/F/W/S/F);

Time Limit

3 years

Part-Time 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 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 department.
- 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. See the [full instructions and forms](#).

Program Requirements

- Part-time students must register for FOR 3001H *Biodiversity of Forest Organisms* and FOR 3012H *Analytical Methods in Forestry* in the Fall session of Year 1. They must complete a minimum of 3.0 full-course equivalents (FCEs) of core courses prior to registering for FOR 3011H *International Forest Conservation Field Camp*. The remaining MFC course requirements can be completed in any order except that FOR 3007H must be taken in the final Summer session and FOR 3008H must be taken in the final Fall session.
- Successful completion of **7.5 full-course equivalents (FCEs)** as follows:
 - 6.0 FCEs in FOR courses:
 - 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*
 - 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*
 - FOR 3006H *Case Study Analysis in Forest Management*
 - FOR 3007H *Internship in Forest Conservation*
 - FOR 3008H *Capstone Project in Forest Conservation*
 - 1.5 elective FCEs:
 - Elective course selection will include the successful completion of one field course (0.5 FCE) from either FOR 3011H *International Forest Conservation Field Camp* or FOR 1585H *Urban Forest Conservation Field Camp* or, in unusual circumstances, 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.

Program Length

12 sessions

Time Limit

6 years

Forestry: Forestry MScF

Master of Science in Forestry

Program Description

The MScF is a research- and thesis-based program in areas relevant to faculty expertise and funding. These include 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 department considers applicants from a variety of undergraduate backgrounds including forestry; applied science and engineering; and social, physical, and biological sciences.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department 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 specialization.
- 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. See the [full instructions and forms](#).

Program Requirements

- Minimal requirements for this degree are:
 - 1.0 full-course equivalent (FCE) as follows:
 - FOR 1001H *Graduate Seminar* (0.5 FCE) 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

Forestry: Forestry PhD

Doctor of Philosophy

Program Description

The PhD is a research- and thesis-based program in areas relevant to faculty expertise and funding. These include 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 department considers applicants from a variety of backgrounds including forestry; applied science and engineering; and social, physical, and biological sciences.

Applicants may enter the PhD program via one of three routes: 1) following completion of an appropriate master's degree; 2) transfer from the University of Toronto MScF program; or 3) direct entry following completion of an appropriate bachelor's degree.

PhD 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 Forestry's additional admission requirements stated below.
- Applicants may be admitted to the four-year PhD program via completion of 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.
- 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. See the [full instructions and forms](#).

Program Requirements

- Successful completion of **2.0 full-course equivalents (FCEs)** as follows:
 - A minimum of three elective half courses (1.5 FCEs) must be taken. Depending on the student's background and academic goals, additional or alternative coursework may be required by the student's supervisory committee, including courses outside the Graduate Department of Forestry.
 - FOR 1001H *Graduate Seminar* (0.5 FCE).
- 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Under certain specific conditions, outstanding registered MScF students may be considered by the end of Year 1 in the MScF program for transfer to the PhD program.

Program Requirements

- Successful completion of **2.0 full-course equivalents (FCEs)** as follows:
 - A minimum of three elective half courses (1.5 FCEs) must be taken. To meet this requirement, students can use courses completed towards meeting MScF program requirements. 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 Graduate Department of Forestry.
 - FOR 1001H *Graduate Seminar* (0.5 FCE). 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.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Forestry's additional admission requirements stated below.
- In exceptional circumstances, an extraordinarily strong applicant with an appropriate bachelor's degree from a recognized university may be admitted to the PhD program via direct entry.
- 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. See the [full instructions and forms](#).

Program Requirements

- Successful completion of **2.0 full-course equivalents (FCEs)** as follows:
 - A minimum of three elective half courses (1.5 FCEs) must be taken. Depending on the student's background and academic goals, additional or alternative coursework may be required by the student's supervisory committee, including courses outside the Graduate Department of Forestry.
 - FOR 1001H *Graduate Seminar* (0.5 FCE).
- 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.

Program Length

5 years

Time Limit

7 years

Forestry: Forestry MFC, MScF, PhD Courses

The Graduate Department 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 1001H ⁰	Graduate Seminar (Credit/No Credit)
FOR 1270H	Forest Biomaterial Sciences: Fundamentals, Applications, and the Next Frontier
FOR 1288H	Design and Manufacturing of Biomaterials
FOR 1294H	Bioenergy and Biorefinery Technology
FOR 1412H	Natural Resource Management I (Directed Studies Course)
FOR 1413H	Natural Resource Management II (Directed Studies Course)
FOR 1416H	Forest Fire Danger Rating
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
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

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.

French Language and Literature

French Language and Literature: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

French Language and Literature

MA and PhD

- Fields:
 - French Linguistics
 - French Literature

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - French Language and Literature, MA, PhD
- [Sexual Diversity Studies](#)
 - French Language and Literature, MA, PhD
- [Women and Gender Studies](#)
 - French Language and Literature, MA, PhD

Overview

The Department of French has a rich history dating back to 1853. Since 1925, when the first PhD was granted, the department has remained one of the most reputed departments of its kind in Canada. Many PhD graduates are professors of French in Canadian and foreign universities. Since 1980, the department has graduated more than 200 PhDs.

Graduate students benefit from a number of exceptional resources, including the outstanding collections at the Robarts Library (containing more than 500,000 volumes in French) and the Thomas Fisher Rare Book Library. The department participates in several collaborative specializations and has strong connections with other academic units.

Home to several research groups and projects, the department offers students vital and stimulating collaborative opportunities for research. The department also publishes its own peer-reviewed journal, *Arborescences*, with graduate student support. Graduate students are welcome to participate in many faculty-led research groups.

The department hosts lectures presented by renowned scholars, giving students a chance to network with specialists

in their field. Contemporary writers from France and Québec are frequently invited to read from their works.

Department professors with literary studies expertise specialize in every period of French literature, Québec and francophone literature, and all the major types of literary theory and methodology. In linguistics, particular strengths include first and second language acquisition, languages in contact including creole studies, and formal linguistics. Several linguistics professors have strong links and collaborative research projects with Romance and Hispanic linguists and the Department of Linguistics at U of T.

Graduate students organize Friday workshops, a forum for sharing their work in progress, as well as an annual graduate conference. Linguistics students enjoy access to a top-notch Linguistics Laboratory that is equipped with technology for data analysis, for conducting psycholinguistic experiments, a space for meeting and testing subjects, and a French Linguistics library.

The MA program provides advanced academic development in either literature or linguistics, as well as outstanding training in research and communication skills in French, preparing students for doctoral studies and careers in such fields as teaching, government administration, and communications. PhD students receive rigorous research training in either literature or linguistics, culminating in original research for their doctoral thesis. While primarily training students for academic careers at the university or community college levels, the PhD in French can also lead to employment opportunities in editorial work and professions outside academia.

Contact and Address

Web: www.french.utoronto.ca
 Email: french.gradcounselor@utoronto.ca
 Telephone: (416) 926-2307
 Fax: (416) 926-2328

Department of French Language and Literature
 University of Toronto
 50 St. Joseph Street
 Toronto, Ontario M5S 1J4
 Canada

French Language and Literature: Graduate Faculty

Full Members

Brousseau, Anne-Marie - PhD (*Interim Chair and Graduate Chair*)
 Cahill, James - AB, MA, MA, PhD
 Drouin, Sebastien - BA, MA, PhD
 Elkabas, Charles - BA, MA, PhD
 Havercroft, Barbara - BA, MA, PhD
 Holtz, Gregoire - LèSL, MA, DLitt
 Kullmann, Dorothea - PhD
 Le Huenen, Roland - DèSL, DLitt
 LeBlanc, Julie - BA, PhD
 Michelucci, Pascal - BA, MA, PhD
 Motsch, Andreas - PhD
 Ndayiragije, Juvenal - PhD

Nikiema, Emmanuel - PhD
 Paterson, Janet - BA, MA, PhD
 Pirvulescu, Mihaela - MA, PhD (**Associate Chair, Graduate; Coordinator, Graduate Admissions and Funding**)
 Riendeau, Pascal - BA, MA, PhD
 Roberge, Yves - BA, MA, PhD
 Steele, Jeffrey - BA, MA, PhD
 Tcheuyap, Alexie - BA, MA, PhD
 Theriault, Patrick - BA, MA, PhD
 Thomine, Marie Claire - PhD

Members Emeriti

Bertrand-Jennings, Chantal - LèsL, PhD
 Bhatt, Parth - BA, MA, PhD
 Boursier, Nicole - BLitt, DèSL, PhD
 Cozea, Angela - BA, MA, PhD
 De Kerckhove, Derrick - BA, MA, PhD
 Falconer, A. Graham - 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, DèSL
 Lord, Michel - BA, MA, PhD
 McClelland, John Alan - PhD
 Nesselroth, Peter - BA, MA, PhD
 O'Neill-Karch, Mariel - BA, MA
 Perron, Paul - PhD
 Smith, David - BA, PhD, PhD
 Smyth, Ronald - BA, MSc, PhD
 Taylor, Robert - PhD
 Tolton, Cameron - PhD
 Wooldridge, Terence - BA, DDeL'UN

Associate Members

Cobb, Michael - BA, MA, AM, PhD
 Colantoni, Laura - MA, PhD
 Cuervo, M. Cristina - PhD
 Danesi, Marcel - BA, MA, PhD
 Friesner, Michael - BA, MA, PhD
 Hamlaoui, Fatima - PhD
 Jennings, Eric - BA, MA, PhD
 Kastronic, Laura - BA, MA, PhD
 Kirouac Massicotte, Isabelle - BA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Liakin, Denis - BA, MA, PhD
 Massam, Diane - BA, MA, PhD
 Papillon, Joelle - PhD
 Perez-Leroux, Ana Teresa - MA, PhD
 Peterson, Jordan - BA, BA, PhD
 Rannaud, Adrien - LèsL, MA, PhD
 Sarabia, Rosa - BA, PhD
 Spada, Nina - BA, MA, PhD

French Language and Literature: French Language and Literature MA

Master of Arts

Program Description

The Master of Arts program is both a self-contained program and the first stage towards doctoral studies. It has two objectives:

- to allow the student to develop a thorough knowledge of the discipline through a program of coursework in French literary studies or linguistics and
- 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.

At the beginning of their course of study, students meet individually with the Associate Chair, Graduate 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.

Field: French Linguistics

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 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., linguistics). Applicants may request that up to 2.0 full-course equivalents (FCEs) of the 5.0 FCEs in the discipline come from cognate disciplines upon the department's approval.
- Admission is based upon the evidence of the supporting letters and the applicant's academic record.

Program Requirements

- Prerequisite work, if necessary.
- **Coursework.** Students must successfully complete a total of **4.0 full-course equivalents (FCEs)** as follows:
 - FRE 1103H *Séminaire de linguistique I : Phonétique et phonologie* (0.5 FCE);
 - FRE 1104H *Séminaire de linguistique II : Syntaxe* (0.5 FCE);
 - FRE 1141H *Séminaire de linguistique III : Linguistique expérimentale et linguistique de corpus* (0.5 FCE);
 - 2.5 FCEs from the regular graduate offerings; **or**
 - 2.0 FCEs and FRE 5001H *Research Essay* (0.5 FCE), a memoire of approximately 35 pages; **or**

- 1.5 FCEs and FRE 5000Y *Research Essay* (1.0 FCE), a 65- to 75-page memoir.
- 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 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 linguistics during Year 1.

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: French Literature

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, 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). Applicants may request that up to 2.0 full-course equivalents (FCEs) of the 5.0 FCEs in the discipline come from cognate disciplines upon the department's approval.
- Admission is based upon the evidence of the supporting letters and the applicant's academic record.

Program Requirements

- Prerequisite work, if necessary.
- **Coursework.** Students must successfully complete a total of **4.0 full-course equivalents (FCEs)** as follows:
 - FRE 1202H *Séminaire de littérature 1 : théorie* (0.5 FCE)
 - FRE 1203H *Séminaire de littérature 2 : période* (0.5 FCE)
 - FRE 1204H *Séminaire de littérature 3 : genre* (0.5 FCE)
 - 2.5 FCEs from the regular graduate course offerings;
or
 - 2.0 FCEs and FRE 5001H *Research Essay* (0.5 FCE), a memoir of approximately 35 pages; **or**
 - 1.5 FCEs and FRE 5000Y *Research Essay* (1.0 FCE), a 65- to 75-page memoir.
- 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).

- 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 during Year 1.

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

French Language and Literature: French Language and Literature PhD; Field: French Linguistics

Doctor of Philosophy

Program Description

The Doctor of Philosophy is necessary preparation for a career in higher education in Canada and abroad which will include teaching and research at an advanced academic level. The PhD includes a combination of advanced seminars, field examinations, a high amount of embedded professional experience in teaching and research, and the presentation of the results of a significant contribution to the discipline in the form of an original dissertation.

The PhD program engages students in a program of study and research in the field of French Linguistics approved by the department. At the beginning of their course of study, students meet individually with the Associate Chair, Graduate 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.

Admission to the PhD program is available via one of two routes: 1) an appropriate master's degree or 2) direct entry with an appropriate bachelor's degree with high academic standing.

Field: French Linguistics

PhD Program

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.
- An appropriate master's degree in French 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 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 linguistics.
- Applicants must satisfy the department that they are capable of independent research in French 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.** Students must successfully complete a total of **3.5 full-course equivalents (FCEs)** including:
 - FRE 1103H *Séminaire de linguistique I : Phonétique et phonologie* (0.5 FCE);
 - FRE 1104H *Séminaire de linguistique II : Syntaxe* (0.5 FCE); and
 - FRE 1141H *Séminaire de linguistique III : Linguistique expérimentale et linguistique de corpus* (0.5 FCE) (unless already completed); and
 - FRE 1201H *Méthodes de recherche* (Credit/No Credit; 0.5 FCE).
- Students must maintain an average grade of at least an A– during Year 1 to remain in good academic standing and to continue in the PhD program. With the department's permission, students may take 1.0 FCE outside the department.
- **Constitution of thesis committee.** Students must submit a form indicating the members of their thesis committee and the provisional title of the thesis. This form 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. Deadline to submit: June 15 of Year 1.
- **Thesis topic.** Students 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. Deadline to register the topic: September 15 of Year 2.
- **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.** Students must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department by the end of Year 1.
- **Field examination (written and oral components).**
 - Students must pass the field examination in Year 2.
 - By November 15 of Year 2, students will submit a text of 20 to 25 pages (double-spaced) in article or thesis chapter format, which outlines the state of the art of current research in the primary domain of the dissertation. This text will form the basis of the short article (to be submitted by March 1) and will be assessed as Pass/Fail.

- By March 1 of Year 2, students must successfully complete a document in the format of a short article which represents a pilot study or a theoretical puzzle in the field of study driven by data gathered by the student.
- A student may not proceed to the oral part of the field examination until the **written part** has been successfully completed. In the case of a failure, the full 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 field examination be retaken in whole or in part within a specific period of time; it may also recommend termination of the student's program.
- The **oral part** of the field examination is to be taken by April 30 of Year 2. It is based on a 15- to 20-page (double-spaced) "thesis proposal" accompanied by an appropriate bibliography. In the case of a failure, the supervisory committee will meet with the student 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.
- **Meet with supervisory committee.** Between the completion of the written field examination, oral field examination, and the Doctoral Final Oral Examination on the thesis, students 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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 linguistics, with an average grade of at least an A– in the overall program. A minimum of five of the seven full courses, or equivalent, should be in the proposed area of study (i.e., linguistics). Applicants may request that up to 2.0 FCEs of the 5.0 FCEs in the discipline come from cognate disciplines upon the departments approval. Admission is limited to exceptionally qualified applicants.
- 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 program in French linguistics as appropriate.
- Applicants must satisfy the department that they are capable of independent research in French 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.** Students must successfully complete a total of **7.5 FCEs** as follows:
 - In Year 1, complete 4.0 FCEs. In Year 2, complete 3.5 FCEs. These include:
 - FRE 1103H *Séminaire de linguistique I : Phonétique et phonologie* (0.5 FCE);
 - FRE 1104H *Séminaire de linguistique II : Syntaxe* (0.5 FCE);
 - FRE 1141H *Séminaire de linguistique III : Linguistique expérimentale et linguistique de corpus* (0.5 FCE);
 - FRE 1201H *Méthodes de recherche* (Credit/No Credit; 0.5 FCE).
- Students must maintain an average grade of at least an A– in Year 1 and Year 2 to remain in good academic standing and to continue in the PhD program. With the department's permission, students may take up to 1.0 FCE outside the department in each of Year 1 and Year 2.
- **Constitution of thesis committee.** Students must submit a form indicating the members of their thesis committee and the provisional title of the thesis. This form 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. Deadline to submit: June 15 of Year 2.
- **Thesis topic.** Students 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. Deadline to register the topic: September 15 of Year 3.
- **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.** Students must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department — by the end of Year 2.
- **Field examination (written and oral components).**
 - Students must pass the field examination in Year 3.
 - By November 15 of Year 3, students will submit a text of 20 to 25 pages (double-spaced) in article or thesis chapter format, which outlines the state of the art of current research in the primary domain of the dissertation. This text will form the basis of the short article (to be submitted by March 1) and will be assessed as Pass/Fail.
 - By March 1 of Year 3, students must successfully complete a document in the format of a short article which represents a pilot study or a theoretical puzzle in the field of study driven by data gathered by the student.
 - A student may not proceed to the oral part of the field examination until the **written part** has been successfully completed. 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 field examination be retaken in whole or in part within a specific period of time; it may also recommend termination of the student's program.

- The **oral part** of the field examination is to be taken by April 30 of Year 3. It is based on a 15- to 20-page (double-spaced) "thesis proposal" accompanied by an appropriate bibliography. In the case of a failure, the supervisory committee will meet with the student 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.
- **Meet with supervisory committee.** Between the completion of the written field examination, oral field examination, and the Doctoral Final Oral Examination on the thesis, students 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

5 years

Time Limit

7 years

French Language and Literature: French Language and Literature PhD; Field: French Literature

Doctor of Philosophy

Program Description

The Doctor of Philosophy is necessary preparation for a career in higher education in Canada and abroad which will include teaching and research at an advanced academic level. The PhD includes a combination of advanced seminars, field examinations, a high amount of embedded professional experience in teaching and research, and the presentation of the results of a significant contribution to the discipline in the form of an original dissertation.

The PhD program engages students in a program of study and research in French literature approved by the department. At the beginning of their course of study, students meet individually with the Associate Chair, Graduate 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.

Admission to the PhD program is available via one of two routes: 1) an appropriate master's degree or 2) direct entry with an appropriate bachelors' degree with high academic standing.

Field: French Literature

PhD Program

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.
- An appropriate master's degree in French literature 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 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.
- Applicants must satisfy the department that they are capable of independent research in French literature 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.** Students must successfully complete a total of **3.5 full-course equivalents (FCEs)** including:
 - FRE 1202H *Séminaire de littérature 1 : théorie* (0.5 FCE);
 - FRE 1203H *Séminaire de littérature 2 : période* (0.5 FCE);
 - FRE 1204H *Séminaire de littérature 3 : genre* (0.5 FCE) (unless these courses or their equivalents have already been completed); and
 - FRE 1201H *Méthodes de recherche* (Credit/No Credit; 0.5 FCE).
- Students must maintain an average grade of at least an A– during Year 1 to remain in good academic standing and to continue in the PhD program. With the department's permission, students may take 1.0 FCE outside the department.
- **Constitution of thesis committee.** Students must submit a form indicating the members of their thesis committee and the provisional title of the thesis. This form 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. Deadline to submit: June 15 of Year 1.
- **Thesis topic.** Students 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. Deadline to register the topic: September 15 of Year 2.

- **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.** Students must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department by the end of Year 1.
- **Field examination (written and oral components).**
 - Students must pass the field examination in Year 2.
 - By November 15 of Year 2, students will produce a written document of approximately 10 to 15 pages (double-spaced) outlining the major area — the literary corpus, the methodological and theoretical perspectives and approaches — from which the thesis will be derived, together with a thematically organized bibliography indicating the primary and secondary works relevant to this area that the student is expected to know in detail. The "outline of the major area" will form the basis for the written part of the field examination (to be submitted by March 1) and will be assessed as Pass/Fail.
 - By March 1 of Year 2, students must successfully complete a take-home examination designed to test the student's knowledge of the general area of their research; the examination questions are given to students a week ahead of the examination.
 - A student may not proceed to the oral part of the field examination until the **written part** has been successfully completed. In the case of a failure, the full 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 field examination be retaken in whole or in part within a specific period of time; it may also recommend termination of the student's program.
 - The **oral part** of the field examination is to be taken by April 30 of Year 2. It is based on a 15- to 20-page (double-spaced) "thesis proposal" accompanied by an appropriate bibliography. In the case of a failure, the supervisory committee will meet with the student 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.
- **Meet with supervisory committee.** Between the completion of the written field examination, oral field examination, and the Doctoral Final Oral Examination on the thesis, students 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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, with an average grade of at least an A– in the overall program. A minimum of five of the seven full courses, or equivalent, should be in the proposed area of study (i.e., literature). Applicants may request that up to 2.0 FCEs of the 5.0 FCEs in the discipline come from cognate disciplines upon the department's approval. Admission is limited to exceptionally qualified applicants.
- 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 program in French literature as appropriate.
- Applicants must satisfy the department that they are capable of independent research in French literature 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.** Students must successfully complete a total of 7.5 FCEs as follows:
 - In Year 1, complete 4.0 FCEs. In Year 2, complete 3.5 FCEs. These include:
 - FRE 1202H *Séminaire de littérature 1 : théorie* (0.5 FCE);
 - FRE 1203H *Séminaire de littérature 2 : période* (0.5 FCE);
 - FRE 1204H *Séminaire de littérature 3 : genre* (0.5 FCE); and
 - FRE 1201H *Méthodes de recherche* (Credit/No Credit; 0.5 FCE).
- Students must maintain an average grade of at least an A– in Year 1 and Year 2 to remain in good academic standing and to continue in the PhD program. With the department's permission, students may take up to 1.0 FCE outside the department in each of Year 1 and Year 2.
- **Constitution of thesis committee.** Students must submit a form indicating the members of their thesis committee and the provisional title of the thesis. This form 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. Deadline to submit: June 15 of Year 2.
- **Thesis topic.** Students 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. Deadline to register the topic: September 15 of Year 3.
- **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.** Students must demonstrate a reading knowledge of Old French or of another language (excluding French or English), as approved by the department — by the end of Year 2.
- **Field examination (written and oral components).**
 - Students must pass the field examination in Year 3.
 - By November 15 of Year 3, students will produce a written document of approximately 10 to 15 pages (double-spaced) outlining the major area — the literary corpus, the methodological and theoretical perspectives and approaches — from which the thesis will be derived, together with a thematically organized bibliography indicating the primary and secondary works relevant to this area that the student is expected to know in detail. The "outline of the major area" will form the basis for the written part of the field examination (to be submitted by March 1) and will be assessed as Pass/Fail.
 - By March 1 of Year 3, students must successfully complete a take-home examination designed to test the student's knowledge of the general area of their research; the examination questions are given to students a week ahead of the examination.
 - A student may not proceed to the oral part of the field examination until the written part has been successfully completed. In the case of a failure, the full 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 field examination be retaken in whole or in part within a specific period of time; it may also recommend termination of the student's program.
 - The **oral part** of the field examination is to be taken by April 30 of Year 3. It is based on a 15- to 20-page (double-spaced) "thesis proposal" accompanied by an appropriate bibliography. In the case of a failure, the supervisory committee will meet with the student 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.
- **Meet with supervisory committee.** Between the completion of the written field examination, oral field examination, and the Doctoral Final Oral Examination on the thesis, students 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

5 years

Time Limit

7 years

French Language and Literature: French Language and Literature MA, PhD Courses

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)
-----------	--

Elective Courses

Not all courses are offered every year. Please consult the department regarding course availability.

Linguistics Courses

FRE 1002H ⁺	Advanced Oral and Written French for Academic Purposes
FRE 1125H	Morphologie et sémantique
FRE 1128H	Le français en contact
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 1141H	Séminaire de linguistique III – Linguistique expérimentale et linguistique de corpus
FRE 1143H	The Evolution of the French Language in Society Throughout the Centuries
FRE 1144H	DP Structure and Adjunct Linearization in French and English

FRE 1145H	La variation linguistique en français hexagonal
FRE 1146H	Acquisition of Sociolinguistic Competence in L2 French
FRE 1147H	Questions et réponses : aspects syntaxiques, phonologiques et discursifs (prérequisites: FRE 1104H, FRE 1141H)
FRE 1164H	Initiation au français médiéval

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

Literature Courses

FRE 1306H	Chanson de Roland
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 1615H	Littérature française et philosophie
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 1928H	Zola et le naturalisme : du « roman expérimental » au « roman nouveau »
FRE 2004H	Formes et voies romanesques de l'extrême contemporain
FRE 2007H	Littérature et éthique : nouveaux textes, nouvelles problématiques
FRE 2011H	Écrire l'athéisme. perspectives littéraires et philosophiques
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 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 2100H	Du texte à l'image : Images photographiques et cinématographiques dans quelques textes contemporains
FRE 2102H	Enjeux des productions culturelles autochtones de langue française au Canada
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 2109H	Histoire des pratiques littéraires et culturelles des femmes au Québec (1830-1960)
FRE 3002H	Pourquoi la poésie
FRE 3004H	Rencontres et compagnonnages au coeur de l'oeuvre
FRE 3005H	Méthodologie de l'analyse du dialogue Romanesque

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.

Joint Courses

JFC 1255H	Aspects du Structuralism
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	Autobiography, 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
JFC 5129H	Performative Autobiographical Acts: Painted and Photographic Representations of Self in Personal and Political Testimonials
JFC 5136H	Allegory and Allegorism in Literature and Fine Arts
JFF 1100H	Surréalisme et cinéma / Surrealism and French Cinema
JFF 1101H	The Art of Exploration: How to Think the World
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 1001H	Introduction to Book History
BKS 1002H	Book History in Practice
BKS 2000H	Advanced Seminar in Book History and Print Culture

Medieval Studies

MST 3232H	Vernacular Literature in Medieval Europe: Status and Function
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
-----------	---

Geography and Planning

Geography and Planning: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Geography

MA, MSc, and PhD

- Fields:
 - Environmental Geography and Resource Management;
 - Historical/Social/Cultural Geography;
 - Physical Geography and Natural Systems;
 - Spatial Information Systems;
 - Urban/Economic Geography

Planning

MScPI

- Concentrations:
 - Economic Planning and Policy;
 - Environmental Planning;
 - Social Planning and Policy;
 - Transportation Planning and Infrastructure;
 - Urban Design;
 - Urban Planning and Development

PhD

- Fields:
 - Cities in Global Context: Economic Development and Social Planning;
 - Environmental and Sustainability Planning;
 - Urban Development, Design and the Built Environment

Urban Design Studies

MUDS

Effective August 2020, the Master of Urban Design Studies program is closed.

Collaborative Specializations

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

- [Community Development](#)
 - Geography, MA
- Planning, MScPI
 - [Contemporary East and Southeast Asian Studies](#)
- Geography, MA
 - Planning, MScPI
- [Development Policy and Power](#)
 - Geography, MA

- [Diaspora and Transnational Studies](#)
 - Geography, MA, MSc, PhD
- [Environmental Studies](#)
 - Geography, MA, MSc, PhD
 - Planning, MScPI, PhD
- [Environment and Health](#)
 - Geography, MA, MSc, PhD
 - Planning, MScPI, PhD
- [Ethnic and Pluralism Studies](#)
 - Geography, MA, PhD
- [Food Studies](#)
 - Geography, MA, MSc, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Geography, MA, MSc, PhD
 - Planning, MScPI, PhD
- [Indigenous Health](#)
 - Geography, MA, PhD
- [Jewish Studies](#)
 - Geography, PhD
- [Sexual Diversity Studies](#)
 - Geography, MA, PhD
- [South Asian Studies](#)
 - Geography, MA, PhD
- [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

Web: geography.utoronto.ca

Geography and PhD programs email:

graduate.geography@utoronto.ca

MSc Planning program email: wright@geog.utoronto.ca

Geography and PhD programs telephone: (416) 978-3377

MSc Planning program telephone: (416) 946-0269

Fax: (416) 946-3886

Department of Geography and Planning

University of Toronto

Sidney Smith Hall

5th Floor, 100 St. George Street

Toronto, Ontario M5S 3G3

Canada

Geography and Planning: Graduate Faculty

Full Members

Abizaid, Christian - MA, PhD
 Adams, Matthew - BES, MES, PhD
 Archontitsis, George Arhonditsis - BSc, MSc, DScA
 Bathelt, Harald - MA, PhD, CRC
 Boland, Alana - BA, MA, PhD
 Brown, Laura - BSc, MSc, PhD
 Buliung, Ronald - MA, PhD (**Graduate Chair**)
 Bunce, Susannah - BA, MES, PhD
 Caspersen, John - BA, PhD
 Chen, Jing - BSc, PhD
 Conway, Tenley - BS, MS, PhD
 Cowen, Deborah - BA, MCP, PhD
 Cowling, Sharon - BSc, MSc, PhD
 Danieri, Amrita - AB, PhD
 Desloges, Joseph - BES, MSc, PhD
 Desrochers, Pierre - AB, MA, PhD
 Diamond, Miriam - MSc, MSc, PhD
 DiFrancesco, Richard - PhD (**Chair**)
 Ekers, Mike - BES, MES, PhD
 Farish, Matthew - BA, PhD
 Finkelstein, Sarah - AB, MPH, PhD
 Florida, Richard - BA, PhD
 Gertler, Meric - AB, MCP, PhD
 Gilbert, Emily - PhD
 Goonewardena, Kanishka - BSc, MCP, PhD
 Gough, William - BSc, MSc, PhD
 Hackworth, Jason - BA, MA, MCP, PhD
 Harvey, Danny - BSc, MSc, PhD
 He, Yuhong - PhD
 Hess, Paul - BA, MA, PhD
 Hunter, Mark - BA, MSS, PhD
 Isaac, Marney Elizabeth - BS, MES, PhD
 Isakson, Ryan - BEc, BA, PhD
 Kant, Shashi - BE, MA, PhD
 Kepe, Thembela - MS, PhD
 Klenk, Nicole - BS, MSc, PhD
 Kuuire, Vincent Zubedaar - BA, MA, 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
 Malcolm, Jay - BSc, MSc, PhD
 Miller, Eric - BASc, MASc, PhD
 Miron, John - BA, MA, MSc, PhD
 Mitchell, Carl - PhD

Mollett, Sharlene - BA, MES, DA
 Olive, Andrea - PhD
 Oswin, Natalie Karen - BA, MA, PhD
 Poland, Blake - BA, PhD
 Porter, Trevor - BSc, PhD
 Prudham, Scott - BASc, BA, MA, PhD
 Rankin, Katharine - BA, MA, PhD
 Robinson, John - BA, BA, MES, MES, PhD, PhD
 Ruddick, Susan - PhD
 Siemiatycki, Matti - 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
 Vinodrai, Tara - BA, MA, PhD
 Wakefield, Sarah - BA, MA, PhD
 Walks, Alan - BA, MA, PhD
 Wells, Mathew - BS, DPhil
 Wilson, Kathleen - AB, AM, PhD
 Zhang, Jun - BS, MS, PhD

Members Emeriti

Bourne, Larry - BA, MA, PhD
 Britton, John - BA, MA, PhD
 Gad, Gunter - DPhil, PhD
 Galloway, John - BA, MA, PhD
 Greenwood, Brian - BSc, PhD
 Munro, D. Scott - BSc, MSc, PhD
 Savan, Beth - BSc, PhD

Associate Members

Adiv, Naomi - PhD
 Allahwala, Ahmed - MA, PhD
 Arik, Hulya - BA, MA, PhD
 Boyes, Donald - BS, MA, PhD
 Brail, Shauna - BA, MA, PhD
 Daigle, Michelle - BA, MA, PhD
 Dorries, Heather - BA, MS, PhD
 Dowler, Robert - BA, MSc
 Dunn, James - AB, AM, PhD
 Farrow, John - MBA
 Flynn, Alexandra - LLB, BA, LLM, MA, PhD
 Goffe, Rachel - BA, PhD
 Hanssen, Jens - BPhil, DPhil
 Higgins, Christopher - BA, MA, PhD
 Latulippe, Nicole Monique - BA, MA, PhD
 Leydon, Joseph - BA, MA, PhD
 Liu, Jane - BSc, MSc, PhD
 McMaster, Gerald - PhD
 Murck, Barbara - AB, PhD
 Roberts, David - DA
 Spicer, Jason - PhD
 Stephens, Lindsay - BA, BA, MSc, MSc, PhD, PhD
 Straw, William - PhD
 Tarasick, David - BSc, MSc, PhD
 Wang, Jue - BS, MPH, PhD
 Wood, Patricia - BA, PhD
 Zimmerman, Peter - BA, MES

Geography and Planning: Geography MA

Master of Arts

Program Description

The MA program offers studies in areas of human geography, including historical/social/cultural geography, urban/economic geography, environmental geography and resource management and some areas of spatial information systems. Applicants should apply to the MA degree program (rather than the MSc) if their planned research contains a substantial human geography component and if two-thirds of their planned coursework comprises Geography courses accepted by the department as social science courses.

MA Program (Thesis Option)

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

- 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](#).
- 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:
 - 0.5 FCE core course GGR 1105H *Human Geography Core Course*;
 - 0.5 FCE elective course in geography or from an approved list of courses available from the department; and
 - 0.5 FCE elective course that may be taken inside or outside the department.

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

MA Program (Research Paper Option)

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

- 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](#).
- Students will undertake research leading to the preparation of a major research paper (GGR 1100Y, 1.0 FCE), in conjunction with the equivalent of **3.0 graduate FCEs** in coursework including:
 - 0.5 FCE core course GGR 1105H *Human Geography Core Course*;
 - 1.5 FCE elective courses in geography or from an approved list of courses available from the department; and
 - 1.0 FCE elective courses, 0.5 FCE of which must be taken outside the department.

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

Geography and Planning: Geography MSc

Master of Science

Program Description

The MSc program offers studies in the areas of physical geography, spatial information systems and some areas of environmental studies. Applicants should apply to the MSc degree program (rather than the MA) if their planned research contains a substantial physical science component and if two-thirds of their planned coursework comprises Geography courses accepted by the department as physical science courses.

MSc Program (Thesis Option)

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 discipline. 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

- 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.
- 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:
 - 0.5 FCE core course GGR 1200H *Physical Geography Core Course*;
 - 0.5 FCE elective course in geography or from an approved list of courses available from the department; and
 - 0.5 FCE elective course that may be taken inside or outside the department.

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

MSc Program (Research Paper Option)

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 discipline. 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

- 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.
- Students will undertake research leading to the preparation of a major research paper (GGR 1100Y; 1.0 FCE), in conjunction with the equivalent of **3.0 graduate FCEs** in coursework including:
 - 0.5 FCE core course GGR 1200H *Physical Geography Core Course*;
 - 1.5 FCE elective courses in geography or from an approved list of courses available from the department; and
 - 1.0 FCE elective courses, 0.5 FCE of which must be taken outside the department.

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

Geography and Planning: Geography PhD Fields: 1) Physical Geography and Natural Systems; 2) Spatial Information Systems

Doctor of Philosophy

Program Description

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.

Applicants may enter the PhD program via one of two routes: 1) following completion of a master's degree or 2) direct entry after completing a bachelors' degree.

Fields:

Physical Geography and Natural Systems;
Spatial Information Systems

PhD Program

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–.

Program Requirements

- Complete a minimum of **1.5 full-course equivalents (FCEs)** in coursework as follows:
 - 0.5 FCE core course GGR 1200H *Physical Geography Core Course*. Students who have taken GGR 1200H at the master's level may take an alternative geography course.;
 - 0.5 FCE in geography courses or from a list of approved courses available from the department;
 - 0.5 FCE in elective courses which may be taken in any departments.
 - Students who hold an appropriate master's degree but are changing disciplines or require further preparatory work may be required to complete additional coursework.
- 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 December 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:
 - A written exam (options are an eight-hour closed room exam on campus in one day or over two days, or a five-day off-campus exam).

- 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. Failure of the second exam may result in a recommendation for termination from the program.
- Acquire knowledge of a **foreign language** necessary for research upon the recommendation of the supervisory committee.
- Submit a **research proposal** that is acceptable to the supervisory committee, normally by the end of June of Year 2 and no later than September of Year 3.
- Unless otherwise specified, two years of **residence** are required whereby the student is required to be on campus full-time and consequently in such geographical proximity as to be able to participate fully in 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 area of study. 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.
- See the [Graduate Geography Handbook](#) and visit the [department's website](#).

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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 an appropriate bachelor's degree from a recognized university.

Program Requirements

- Complete a minimum of **3.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course GGR 1200H *Physical Geography Core Course*;
 - 0.5 FCE in geography courses or from a list of approved courses available from the department;
 - 2.0 FCE in elective courses which may be taken in any department.
- 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 December 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:

- A written exam (options are an eight-hour closed room exam on campus in one day or over two days, or a five-day off-campus exam).
- 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. Failure of the second exam may result in a recommendation for termination from the program.
- Acquire knowledge of a **foreign language** necessary for their research upon the recommendation of their supervisory committee.
- Submit a **research proposal** that is acceptable to the supervisory committee, normally by the end of June of Year 2 and no later than September of Year 3.
- Unless otherwise specified, two years of **residence** are required whereby 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 area of study. 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 details are fully described in the [Graduate Geography Handbook](#) and the [department's website](#).

Program Length

5 years

Time Limit

7 years

Geography and Planning: Geography PhD
Fields: 1) Environmental Geography and Resource Management; 2) Historical/Social/Cultural Geography; 3) Urban/Economic Geography

Doctor of Philosophy

Program Description

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.

Applicants may enter the PhD program via one of two routes:
1) following completion of a master's degree or 2) direct entry after completing a bachelor's degree.

Fields:

Environmental Geography and Resource Management;
Historical/Social/Cultural Geography;
Urban/Economic Geography

PhD Program

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–.

Program Requirements

- Complete a minimum of **3.0 full-course equivalents (FCEs)** in coursework including:
 - 0.5 FCE core course GGR 1110H *Issues in Geographic Thought and Practice*.
 - 1.0 FCE in geography courses or from a list of approved courses available from the department.
 - At least 0.5 FCE but not more than 1.5 FCE courses in other departments.
 - In exceptional cases, at the discretion of the department, up to 1.0 FCE of graduate courses completed at the master's level at the University of Toronto may be counted towards meeting some course requirements.
 - Students who hold an appropriate master's degree but are changing disciplines or require further preparatory work may be required to complete additional coursework.
- 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 December 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:
 - A written exam (options are an eight-hour closed room exam on campus in one day or over two days, or a five-day off-campus exam).
 - 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. Failure of the second exam may result in a recommendation for termination from the program.
- Acquire knowledge of a **foreign language** necessary for research upon the recommendation of the supervisory committee.
- Submit a **research proposal** that is acceptable to the supervisory committee, normally by the end of June of Year 2 and no later than September of Year 3.
- Unless otherwise specified, two years of **residence** are required whereby 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 area of study. 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 details are fully described in the [Graduate Geography Handbook](#) and the [department's website](#).

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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

- Complete a minimum of **3.0 full-course equivalents (FCEs)** in coursework as follows:
 - 0.5 FCE core course GGR 1110H *Issues in Geographic Thought and Practice*;
 - 1.0 FCE in geography courses or from a list of approved courses available from the department;
 - at least 0.5 FCE but no more than 1.5 FCE courses in other departments.
- 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 December 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:
 - a written exam (options are an eight-hour closed room exam on campus in one day or over two days, or a five-day off-campus exam), and
 - 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. Failure of the second exam may result in a recommendation for termination from the program.

- Acquire knowledge of a **foreign language** necessary for the research upon the recommendation of the supervisory committee.
- Submit a **research proposal** that is acceptable to the supervisory committee, normally by the end of June of Year 2 and no later than September of Year 3.
- Unless otherwise specified, two years of **residence** are required whereby 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 area of study. 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.
- See the [Graduate Geography Handbook](#) and visit the [department's website](#).

Program Length

5 years

Time Limit

7 years

Geography and Planning: Geography MA, MSc, PhD Courses

The following graduate courses will be available on demand and subject to faculty resources. Not all courses are given every year, and some members of the graduate faculty are on research leave. Please consult the departmental graduate office. The 2000-level courses are normally open to PhD students only.

Core Courses

GGR 1105H	Human Geography Core Course
GGR 1110H	Issues in Geographic Thought and Practice
GGR 1200H	Physical Geography Core Course

Research Methods Courses

JPG 1111H	Social Research Methods
JPG 1120H	Advanced Qualitative Research: Methodology and Epistemological Foundations for Planning and Geography
JPG 1140H	Discourse Analysis Methodology
GGR 1218H	Quantitative, Open-Source Methods in Physical Geography Research
JPG 1400H	Advanced Quantitative Methods

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
GGR 2151H	Advanced Seminars in Selected Topics II
JPG 2151H	Advanced Seminars in Selected Topics II

Environmental and Resource Geography

GGR 1404H	Global Warming (exclusion: GGR314H1)
GGR 1406H	Energy Supply and Use (exclusion: GGR333H1)
GGR 1407H	Efficient Use of Energy (exclusion: GGR347H1)
GGR 1408H	Carbon-Free Energy (exclusions: GGR 1406H, GGR348H1)
GGR 1411H	Nature and Justice in the Anthropocene
JGE 1413H	Workshop in Environmental Impact Assessment
JPG 1419H	Aboriginal/Canadian Relations in Environmental and Resource Management
GGR 1422H	The Geography of Urban Air Pollution
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
JPG 1428H	Managing Urban Ecosystems
JPG 1429H	Political Ecology of Food and Agriculture
JFG 1610H	Sustainable Forest Management and Certification

Geographical Information Analysis

JPG 1906H	Geographic Information Systems
GGR 1911H	Remote Sensing (exclusions: GGR337H1, GGR437H1, GGR 1912H)
GGR 1912H	Advanced Remote Sensing (exclusions: GGR337H1, GGR437H1, GGR 1911H)
JPG 1914H	Geographic Information Systems Research Project (exclusion: GGR462H1)
GGR 1916H	Remote Sensing of Vegetation Traits and Function (exclusion: GGR414H1S)
GGR 1921H	Land/Geographic Information Systems

Historical, Social, and Cultural Geography

JPG 1503H	Space, Time, Revolution
JPG 1506H	State/Space/Difference: Understanding the New Social Geography of the State

JPG 1511H	The Commons: Geography, Planning, Politics
JPG 1520H	Contested Geographies of Class-Race Formations
JPG 1672H	Land and Justice
GGR 1705H	Historical Geographies of Modernity
JPG 1706H	Violence and Security
GGR 1714H	Geographies of Citizenship
JPG 1804H	Space, Power, and Geography: Understanding Spatiality
JPG 1805H	Transnationalism, Diaspora, and Gender
GGR 1806H	Feminist Geographies
GGR 1807H	Geographies of Postcoloniality and Development: Exploring the 'Infrastructure Turn'
JPG 1809H	Spaces of Work: Value, Identity, Agency, Justice
GGR 1811H	Troubling Militarism: Space, Affect, Economy
JPG 1812Y	Planning for Change: Community Development in Practice
JPG 1813H	Planning and Social Policy
JPG 1815H	Political Economy, the Body, and Health
GGR 1816H	Geographies of Secularism, Islam, and Gender
JPG 1818H	The Geography and Planning of Climate Action and Activism
GGR 1821H	China Development Seminar
JPG 1825H	Black Geographies of the Atlantic
JPG 1830H	Utopia/Dystopia

Physical Geography

GGR 1202H	Sedimentation and Fluvial Geomorphology (exclusion: GGR301H)
GGR 1215H	Advanced Watershed Hydroecology (exclusion: GGR413H1)
GGR 1216H	Advanced Biogeochemical Processes (exclusion: GGR406H1)
GGR 1217H	The Climate of the Arctic (exclusion: GGR484H1)
GGR 1302H	Advanced Hydrology and Water Quality (exclusion: GGR407H1)
GGR 1315H	The Cryosphere (exclusion: GGR317H1)

Urban and Economic Geography

JPG 1502H	Global Urbanism and Cities of the Global South
JPG 1504H	Institutionalism and Cities: Space, Governance, Property and Power
JPG 1507H	Housing Markets and Housing Policy Analysis
JPG 1512H	Place, Politics, and the Urban
JPG 1516H	Declining Cities
JPG 1518H	Sustainability and Urban Communities
JPG 1525H	Urban, Regional, and Community Economic Development
JPG 1554H	Transportation and Urban Form

JPG 1558H	The History and Geography of Cycles and Cycling
JPG 1605H	The Post-Industrial City
JPG 1607H	Geography of Competition
JGE 1609H	Cities, Industry, and the Environment
GGR 1610H	Geography of Finance and Financial Crisis
JPG 1615H	Planning and the Social Economy
JPG 1616H	The Cultural Economy
JPG 1617H	Organization of Economies and Cities
JPG 1621H	Innovation and Governance
JPG 1660H	Regional Dynamics
JPG 1670H	Regional Economic Analysis
JPG 1814H	Cities and Immigrants

- Progress into Year 2 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 option.

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

Geography and Planning: Planning MScPI

Master of Science in Planning

Program Description

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.

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

- The program consists of **8.0 full-course equivalents (FCEs)** plus the PLA 4444Y **internship**, taken over two years, as follows:
 - 4.0 FCEs in core courses
 - 4.0 FCEs 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 concentration in one of the following six fields:
 - Economic Planning and Policy
 - Environmental Planning
 - Social Planning and Policy
 - Transportation Planning and Infrastructure
 - Urban Design
 - Urban Planning and Development
 - PLA 4444H *Internship* (0.0 FCE). Students are required to pursue a planning internship between Years 1 and 2 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.

Geography and Planning: Planning PhD

Doctor of Philosophy

Program Description

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.

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

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 December 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:

- a written exam (options are an eight-hour closed room exam on campus in one day or over two days, or a five-day off-campus exam); and
- 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 June of Year 2 and no later than September of Year 3.
- 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 area of study. 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 details are fully described in the [Graduate Geography Handbook](#) and the [department's website](#).

Program Length

4 years full-time

Time Limit

6 years full-time

Geography and Planning: Planning MScPl, PhD Courses

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 MScPl

PLA 1101H	Planning History, Thought, and Practice
PLA 1102H	Planning Decision Methods I
PLA 1103H	Legal Basis of Planning
PLA 1105H	Planning Decision Methods II
PLA 1106H	Workshop in Planning Practice
PLA 1107Y	Current Issues Paper
PLA 1520H	Project Management and Conflict Resolution for Planners

Core Courses for the PhD in Planning

JPG 1111H	Social Research Methods (or a methods course in a related department subject to the approval of the supervisor)
PLA 2000H	Advanced Planning Theory
PLA 2001H	Planning Colloquium (Credit/No Credit)

Elective Courses

JPG 1120H	Advanced Qualitative Research: Methodology and Epistemological Foundations for Planning and Geography
JPG 1140H	Discourse Analysis Methodology
PLA 1149H	Independent Study
JPG 1400H	Advanced Quantitative Methods
JPG 1407H	Efficient Use of Energy
JGE 1413H	Workshop in Environmental Impact Assessment
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 1426H	Natural Resources, Difference, and Conflict
JPG 1427H	The (Re)Localization of Food Production: Debates and Controversies
JPG 1428H	Managing Urban Ecosystems
JPG 1429H	Political Ecology of Food and Agriculture
JPG 1502H	Global Urbanism and Cities of the Global South
JPG 1503H	Space, Time, Revolution
PG 1504H	Institutionalism and Cities: Space, Governance, Property, and Power
JPG 1506H	State/Space/Difference: Understanding the New Social Geography of the State
JPG 1507H	Housing Markets and Housing Policy Analysis
PLA 1510H	Special Topics in Planning
JPG 1511H	The Commons: Geography, Planning, Politics
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 1519H	Planning and Governance
JPG 1520H	Contested Geographies of Class-Race Formations
PLA 1520H	Project Management and Conflict Resolution for Planners
JPG 1525H	Urban, Regional, and Community Economic Development
PLA 1551H	Policy Analysis
PLA 1552H	City Planning and Management
JPG 1554H	Transportation and Urban Form
JPG 1558H	The History and Geography of Cycles and Cycling

PLA 1601H	Climate Change and Resilience: Planning and Policy
JPG 1605H	The Post-Industrial City
JPG 1607H	Geography of Competition
JPG 1615H	Planning and the Social Economy
JPG 1616H	The Cultural Economy
JPG 1617H	Organization of Economies and Cities
JPG 1621H	Innovation and Governance
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
JPG 1660H	Regional Dynamics
JPG 1670H	Regional Economic Analysis
JPG 1672H	Land and Justice
PLA 1702H	Pedestrians, Streets, and Public Space
PLA 1703H	Transportation Planning and Infrastructure
JPG 1706H	Violence and Security
PLA 1751H	Public Finance for Planners
PLA 1801H	Urban Infrastructure Planning
JPG 1804H	Space, Power, and Geography: Understanding Spatiality
JPG 1805H	Transnationalism, Diaspora, and Gender
GGR 1807H	Geographies of Postcoloniality and Development: Exploring the 'Infrastructure Turn'
JPG 1809H	Spaces of Work: Value, Identity, Agency, Justice
JPG 1810H	Globalization and Postmodernism
JPG 1812Y	Planning for Change: Community Development in Practice
JPG 1813H	Planning and Social Policy
JPG 1814H	Cities and Immigrants
JPG 1818H	The Geography and Planning of Climate Action and Activism
JPG 1825H	Black Geographies of the Atlantic
JPG 1830H	Utopia/Dystopia
JPG 1906H	Geographic Information Systems
JPG 1909H	Social Survey Methods
JPG 1914H	Geographic Information Systems Research Project (exclusion: GGR462H1)
JPG 2150H	Advanced Seminars in Selected Topics
JPG 2151H	Advanced Seminars in Selected Topics II
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.)

Geography and Planning: Urban Design Studies MUDS

Master of Urban Design Studies

Effective August 2020, this program is closed.

Students are admitted via one of three routes: 1) with a master's degree in a professional field; 2) with a bachelor's degree (four- or five-year) in planning, architecture, or landscape architecture; 3) with a bachelor's degree (four- or five-year) in any discipline plus evidence of significant professional experience.

The Master of Urban Design Studies program can be completed on a full-time basis only.

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

- **Students entering with significant prior design workshop/studio experience** (as determined by the admissions committee) must complete a core program of **4.0 full-course equivalents (FCEs)** as follows:
 - 2.5 FCEs
 - 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 entering without significant prior design workshop/studio experience** must complete **5.5 FCEs** as follows:
 - 2.5 FCEs
 - 2.5 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.

- PLA 1652H *Introductory Studio in Urban Design and Planning*

Program Length

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

Time Limit

3 years full-time

Geography and Planning: Urban Design Studies MUDS Courses

Effective August 2020, this program is closed.

Core Courses

The core program is composed of five half-course equivalents (six half-course equivalents for those entering the program without significant prior design workshop/studio experience) that encompass the practical, theoretical, and methodological aspects of urban design.

Course sequence for the core program:

First Session

PLA 1650H / URD 1031H	Urban Design: History Theory Criticism
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 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 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 2041H	Business and Land Use Planning in Real Estate Development
JPG 2150H	Advanced Seminars in Selected Topics

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.

Germanic Languages and Literatures

Germanic Languages and Literatures: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Germanic Languages and Literatures

MA

- Fields:
 - German Literature, Culture and Theory;
 - Yiddish Studies

Germanic Literature, Culture and Theory

PhD

- Field:
 - Germanic Literature, Culture and Theory

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - Germanic Languages and Literatures, MA
 - Germanic Literature, Culture and Theory, PhD
- [Diaspora and Transnational Studies](#)
 - Germanic Languages and Literatures, MA
 - Germanic Literature, Culture and Theory, PhD
- [Jewish Studies](#)
 - Germanic Languages and Literatures, MA
 - Germanic Literature, Culture and Theory, PhD
- [Women and Gender Studies](#)
 - Germanic Languages and Literatures, MA
 - Germanic 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 encompassing 11 full-time faculty who contribute to a curriculum that speaks to our traditional strength in literary and intellectual history. Our faculty and students conduct research in German cinema, critical theory, language pedagogy, Yiddish studies, medieval studies, travel literature, as well as post-colonial, psychoanalytic, and transnational studies.

Past graduates have secured tenure-track teaching positions as well as employment in the arts, in cultural programming, the

publishing industry, and educational administration. We are committed to providing our graduate students with exposure to a diversity of methodological approaches among our faculty and those of affiliate units. We also emphasize early progress towards professionalization through participation in faculty research projects, attendance at local and international conferences, and enrolment in campus writing workshops. We cultivate a departmental climate of mutual respect and collegiality in the shared pursuit of critical inquiry.

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: 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

Germanic Languages and Literatures: Graduate Faculty

Full Members

Fenner, Angelica - BA, MA, PhD
 Goetschel, Willi - PhD
 Hager, Michael - MA, PhD
 Lehleiter, Christine - MA, PhD (**Graduate Coordinator**)
 Noyes, John - BA, MA, PhD
 Shternshis, Anna - MA, PhD
 Soldovieri, Stefan - BA, MA, PhD (**Chair and Graduate Chair**)
 Stock, Markus - MA, PhD
 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

Associate Members

Bergen, Doris - MA, PhD
 Budde, Antje - PhD
 Clark, Caryl - BMus, MA, PhD
 Cohen, Adam - PhD
 Comay, Rebecca - BA, MA, PhD
 DiCenso, James - BA, MA, PhD
 Esterhammer, Angela - BA, PhD
 Gibbs, Robert - BA, MA, PhD

Jenkins, Jennifer - BA, MA, PhD
 Kim, Hang-Sun - AB, MA, PhD
 Lahusen, Thomas - MA, PhD
 Levy, Evonne - MFA, PhD
 Retallack, James - BA, DPhil
 Revermann, Martin - PhD
 Seidman, Naomi - PhD
 Wittmann, Rebecca - AB, MA, PhD

Germanic Languages and Literatures: Germanic Languages and Literatures MA

Master of Arts

Program Description

The MA degree in Germanic Languages and Literatures is offered in two fields:

- German Literature, Culture and Theory
- Yiddish Studies

The course-based, one-year MA program normally spans two sessions. Students have the option to concurrently enrol in one of the collaborative specializations at U of T, such as Women and Gender Studies, Jewish Studies, Transnational and Diaspora Studies, or Book History and Print Culture. This also requires registration in their respective core course(s). The MA in German is a full-time program, but may also be taken part-time under extenuating circumstances. Graduates may continue on to doctoral studies as well as embarking on careers in translation, language teaching, literary editing, cultural programming, and corporate and administrative positions requiring advanced communication and analytical skills.

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 of 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 two 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 as evidenced through transcripts from all post-secondary institutions, the supporting letters, a sample of written work (such as a term paper), and a Letter of Intent (500-word maximum) identifying current career goals and areas of academic interest.

Program Requirements

- **Coursework.** Students must complete **3.5 FCEs** including:
 - GER 1000H *German Studies Seminar: Culture, Theory, Text* (0.5 FCE)
 - at least 1.5 FCEs of the remaining 3.0 FCEs must carry a GER designator
 - the remaining course selection which is made in consultation with the Associate Chair of Graduate Studies of the department and must be approved by the department.
- 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 two 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

- **Coursework.** Students must complete **3.5 FCEs** including:
 - GER 1000H *German Studies Seminar: Culture, Theory, Text* (0.5 FCE)
 - CJS 1000H *Core Methods Seminar in Jewish Studies* (0.5 FCE)
 - GER 1050H *Methods and Texts in Yiddish Studies* (0.5 FCE)
 - GER 2050Y *Research Paper in Yiddish Studies* (1.0 FCE)
 - 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

Germanic Languages and Literatures: Germanic Literature, Culture and Theory PhD

Doctor of Philosophy

Program Description

The PhD program in Germanic Literature, Culture, and Theory is taken on a full-time basis and is fully funded for five years. The curriculum engages debates and questions salient to the discipline of German Studies while also forging generative ties with other disciplines to facilitate a synthesis of history and theory, textual analysis, and cultural study. Students have the option to concurrently enrol in one of the collaborative specializations at U of T, such as Women and Gender Studies, Jewish Studies, Transnational and Diaspora Studies, or Book History and Print Culture. This also requires registration in their respective core course(s).

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate master's degree or 2) direct entry following completion of an appropriate bachelor's degree.

PhD Program

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 an appropriate **master's degree in German** from a recognized university, with an average grade equivalent to at least a University of Toronto A– in the applicant's overall program.
- Applicants must satisfy the department that they are capable of independent research in German at an advanced level.
- Applicants 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, a writing sample, a Letter of Intent (500-word maximum), and the evidence of the supporting letters.

Program Requirements

- **Coursework. Applicants admitted on the basis of a master's degree** must take a minimum of **4.0 full-course equivalents (FCEs)** including:
 - GER 1000H *German Studies Seminar: Culture, Theory, Text* (0.5 FCE) with an average grade of at least an A–.
 - At least 3.5 FCEs by the end of Year 1.
 - Any remaining courses required for the degree by the end of Year 2. 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. The qualifying examination has two components:
 - The proficiency exam is based on a student-created and committee-approved, comprehensive list of works and entails writing exams in four (4) epochs (three for the Yiddish field), followed by an oral exam.
 - The research field paper on a topic approved by the examination committee offers a means to explore key theoretical readings and test firsthand the traction of at least one central methodology pertinent to the future thesis. This paper, between 25 and 30 pages in length, is completed during the Summer session following the proficiency examination and strives towards publishable quality.
- The **thesis proposal** encompasses an abstract, literature review, detailed discussion of the methodology, tentative chapter outlines, and bibliography/mediagraphy.
- Students must pass a **thesis proposal review** under the guidance of their supervisory committee, whose members will read the proposal, and approve the examinee for doctoral candidacy.
- Students must deliver a **departmental lecture** on their dissertation topic within one year following the thesis proposal review.
- Students must submit the **doctoral thesis** and successfully 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 [12.1.2.8 Thesis section in Degree Regulations](#), Doctor of Philosophy).

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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 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.
- Applicants must satisfy 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, a writing sample, a Letter of Intent (500-word maximum), and the evidence of the supporting letters.

Program Requirements

- **Coursework. 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* (0.5 FCE) 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 Year 1.
 - The remaining courses required for the degree, with an A– average, by the end of Year 2.
- 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 3 of the PhD program. The qualifying examination has two components:
 - The proficiency exam is based on a student-created and committee-approved, comprehensive list of works and entails writing exams in four (4) epochs (three for the Yiddish field), followed by an oral exam.
 - The research field paper on an approved topic approved by the examination committee offers a means to explore key theoretical readings and test firsthand the traction of at least one central methodology pertinent to the future thesis. This paper, between 25 and 30 pages in length, is completed during the Summer session following the proficiency examination and strives towards publishable quality.
- The thesis proposal encompasses an abstract, literature review, detailed discussion of the methodology, tentative chapter outlines, and bibliography/mediagraphy.
- Students must pass a **thesis proposal review** under the guidance of their supervisory committee, whose members will read the proposal and approve the examinee for doctoral candidacy.

- Students must deliver a departmental lecture on their dissertation topic within one year following the thesis proposal review.
- Students must submit the **doctoral thesis** and successfully 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 [12.1.2.8 Thesis section in Degree Regulations](#), Doctor of Philosophy).

Program Length

5 years

Time Limit

7 years

Germanic Languages and Literatures: Germanic Languages and Literatures MA and Germanic Literature, Culture and Theory PhD Courses

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 1051Y	Yiddish Language and Literature for German Speakers
GER 1200H	Middle High German
GER 1210H	Medieval German Romance: Tristan und Isolde
GER 1220H	Medieval Arthurian Romance
GER 1480H	Goethe's Faust
GER 1485H	Goethe's Novels
GER 1540H	Revolutions
GER 1550H	Origins: Myths of Beginning in German Literature and Thought
GER 1661H	Modernism in Context
GER 1690H	Theatre in the Weimar Republic
GER 1722H	Kafka
GER 1730H	Travel Writing
GER 1735H	Transnational Literatures
GER 1770H	Reviewing the 50s: German Cinemas under Reconstruction
GER 1771H	Topics in German Cinema Studies
GER 1775H	Cinemas of Migration
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 1860H	Introduction to Critical Theory
GER 1880H	Gottfried Keller and the Politics of Poetic Realism in a Minor Key
GER 2000H,Y	Reading Course in Approved Field

GER 2050Y	Research Paper in Yiddish Studies
GER 6000H	Reading German for Graduate Students
JGC 1660H	Modernism and the Other
JGC 1740H	Humans and Things
JGC 1855H	Critical Theory in Context: The French-German Connection
JGF 1733H	Autobiographical Documentary: History, Alterity, and Performativity

Global Affairs and Public Policy

Global Affairs and Public Policy: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Global Affairs

MGA

- Emphases:
 - Development;
 - Innovation Policy;
 - Justice;
 - Markets;
 - Security
- Dual Degree Programs:
 - MGA (University of Toronto) / MIA (Hertie School, Berlin)
 - MGA (University of Toronto) / MPP (Sciences Po, Paris)

Public Policy

MPP

Combined Degree Programs

- [STG, Law, JD / MGA](#)
- [STG, Law, JD / MPP](#)
- [STG, Management, MBA / MGA](#)

Collaborative Specializations

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

- [Contemporary East and Southeast Asian Studies](#)
 - Global Affairs, MGA
 - Public Policy, MPP
- [Environmental Studies](#)
 - Global Affairs, MGA
 - Public Policy, MPP
- [Ethnic and Pluralism Studies](#)
 - Global Affairs, MGA
 - Public Policy, MPP
- [Public Health Policy](#)
 - Public Policy, MPP
- [Sexual Diversity Studies](#)
 - Public Policy, MPP

Overview

The **Master of Global Affairs (MGA)** program 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.

The Munk School's prestigious **Master of Public Policy (MPP)** brings together an impressive array of students and faculty for a two-year, full time program that bridges Canadian and global policy. In addition to a paid summer internship and a wide range of career support services, students develop core competencies considered essential for policy practice and take electives from both within the Munk School and in the broader University. Visiting public sector leaders along with a renowned multidisciplinary faculty bridge theory and real world experience, providing contact with senior professionals in government and the broader public, private, and community sectors. Students may also apply to the combined JD/MPP degree program as well as pursue collaborative specializations with other graduate departments.

A Munk School education, located in the heart of downtown Toronto and in close proximity to an extraordinary concentration of policy leaders, will empower students to achieve their professional and personal goals.

Contact and Address

Web: munkschool.utoronto.ca/mga

Email: mga@utoronto.ca

Telephone: (416) 946-8917

Fax: (416) 946-8915

Munk School of Global Affairs and Public Policy
University of Toronto
315 Bloor Street West
Toronto, Ontario M5S 0A7
Canada

Web: munkschool.utoronto.ca/publicpolicy

Email: public.policy@utoronto.ca

Telephone: (416) 978-5120

Fax: (416) 978-5079

Master of Public Policy Program
University of Toronto
Canadiana Gallery
Third Floor, 14 Queen's Park Crescent West
Toronto, Ontario M5S 3K9
Canada

Global Affairs and Public Policy: Graduate Faculty

Full Members

Baker, Michael - BComm, MA, PhD
 Breznitz, Dan - BA, PhD
 Deibert, Ronald - BA, MA, PhD
 Frazer, Garth - BE, BM, MPH, MA, PhD
 Hansen, Randall - BA, MPH, PhD, CRC
 Heath, Joseph - BA, MA, PhD, FRSC
 Heblich, Stephan - PhD
 Kasekamp, Andres - PhD
 Katz, Larissa - BA, LLB, LLM, SJD
 Kroft, Kory - BA, MA, PhD
 Lam, Tong - BSc, MA, PhD
 Levi, Ron - BCL, LLB, LLM, SJD
 Lipsky, Phillip - PhD
 Loewen, Peter - PhD
 McGahan, Anita - BA, MA, MBA, PhD
 Ornston, Darius - BA, MA, PhD
 Pauly, Louis - BA, MA, MSc, MSc, PhD, CRC, FRSC
 Peng, Ito - BSW, BSc, MA, PhD
 Prichard, Wilson R.S - BA, MPH, DPhil
 Robinson, John - BA, BA, MES, MES, PhD, PhD
 Sabia, Michael - BA, MPH, PhD (**Director**)
 Stein, Janice - BA, MA, PhD, OC, FRSC
 White, Graham - BA, MA, PhD
 White, Linda - BA, MA, PhD
 Wolfe, David - BA, MA, PhD
 Wong, Joseph - BA, MA, PhD, CRC

Associate Members

Breznitz, Shiri - BA, MA, PhD
 Hejazi, Walid - BA, MA, PhD
 Indart, Gustavo - BA, MA, PhD
 Jayaraman, Rajshri - BA, MA, PhD
 Lindsay, Jon - BS, MS, PhD
 Manger, Mark - DrRerPol
 Niemi, Laura - BA, MA, PhD
 Rae, Bob - LLB, BA, MPH
 Salardi, Paola - DPhil
 Triadafilopoulos, Triadafilos - BA, MA, PhD

Global Affairs and Public Policy: Global Affairs MGA

Master of Global Affairs

Program Description

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.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Munk School of Global Affairs and Public Policy'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.

- Students must complete **8.5 full-course equivalents (FCEs)**, as follows:
 - 4.5 FCEs in core courses in Year 1 (nine half-course equivalents)
 - 0.5 FCE: GLA 1007H *Global Internship* in the Summer session between Years 1 and 2
 - 0.5 FCE core course in Year 2: GLA 2000H *Capstone Seminar*
 - additional 3.0 FCEs in Year 2 (six half courses) at the 2000 level from the Munk School.
- Students have the option of completing an emphasis as part of their degree program. In order for students to graduate, they must complete at least 1.5 FCEs in that emphasis; see details below. Students may use courses taken in other departments towards their chosen emphasis with the approval of the MGA Program Director. Verification of completion of an emphasis will be at the discretion of the MGA Program Director. Students must formally request that the emphasis be listed on their transcript.

Program Length

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

Time Limit

3 years full-time

Emphasis: Development

MGA students who wish to complete an emphasis in Development must successfully complete **1.5 full-course equivalents (FCEs)** from the following list:
 GLA 2002H; GLA 2014H; GLA 2019H; GLA 2028H; GLA 2060H; GLA 2061H GLA 2062H; and JCR 1000Y.

Emphasis: Innovation Policy

MGA students who wish to complete an emphasis in Innovation Policy must successfully complete **1.5 full-course equivalents (FCEs)** from the following list:

GLA 2014H; GLA 2018H; GLA 2021H; GLA 2080H; GLA 2081H; and GLA 2082H

Emphasis: Justice

MGA students who wish to complete an emphasis in Justice must successfully complete **1.5 full-course equivalents (FCEs)** from the following list:

GLA 2013H; GLA 2016H; GLA 2023H; GLA 2066H; GLA 2067H; and GLA 2068H.

Emphasis: Markets

MGA students who wish to complete an emphasis in Markets must successfully complete **1.5 full-course equivalents (FCEs)** from the following list:

GLA 2001H; GLA 2006H; GLA 2012H; GLA 2015H; GLA 2025H; GLA 2069H; GLA 2070H; and GLA 2071H.

Emphasis: Security

MGA students who wish to complete an emphasis in Security must successfully complete **1.5 full-course equivalents (FCEs)** from the following list:

GLA2010H; GLA2024H; GLA2030H; GLA 2063H; GLA 2064H; GLA 2065H

Dual Degree Program: Master of Global Affairs (University of Toronto) / Master of International Affairs (Hertie School of Governance)

Program Description

This dual degree program creates a pathway between the U of T Master of Global Affairs and the Hertie School Master of International Affairs (MIA) programs. In Year 1, students complete MIA coursework in Germany at the Hertie School. In the Summer session of Year 1, students complete an internship that is part of the MGA and MIA degree programs. In Year 2, students complete MGA coursework in Toronto and in the final Summer, complete a master's thesis as part of the dual degree requirements. Students will gain both degrees in two years (24 months) rather than the four years it would take to acquire the degrees consecutively.

Contact

Master of Global Affairs / Master of International Affairs Program
Web: munkschool.utoronto.ca/mga/dual-degree-with-the-hertie-school

Master of Global Affairs Program
Munk School of Global Affairs and Public Policy, University of Toronto
Email: mga@utoronto.ca

Master of International Affairs Program
Hertie School of Governance
Email: grad-admissions@hertie-school.org

Application Process

- Applicants must apply through the [Hertie School admission website](#). Applicants are then jointly selected and admitted by the MGA at the University of Toronto and the MIA at the Hertie School. All applicants must complete the Hertie School online admissions application. All applicants who are admitted to the dual degree program must then also complete the application on U of T's [School of Graduate Studies online admissions application system](#).

Minimum Admission Requirements

- Applicants must meet the admission requirements of both programs to be admitted to the dual degree. The MGA admission requirements are stated below.
- Applicants are admitted under the General Regulations of the School of Graduate Studies of the University of Toronto as well as the specific requirements of the MGA.
- An appropriate bachelor's degree with a standing in the final year equivalent to at least a U of T B+.
- Open to all disciplinary backgrounds.
- Applicants whose primary language is not English and who graduated from a university where the primary language of instruction is not English must provide proof of English-language proficiency. The following tests and scores will be accepted:
 - TOEFL: 100/120 overall;
 - IELTS (International English language testing system): 7, with at least 6.0 for each component.

Program Requirements

During their U of T registration in the MGA program, students must complete a total of **6.5 full-course equivalents (FCEs)**.

Year 1

- Fall and Winter:** Students complete Year 1 courses at the Hertie School.
- Summer:** GLA 1007H *Global Internship* (0.5 FCE, 12 weeks) plus a critical reflection paper to be submitted in September of Year 2.

Year 2

- Fall and Winter (5.0 FCEs):**
 - GLA 1009H *Financial Management for Global Organizations* (0.5 FCE)
 - GLA 1011H *Global Innovation Policy* (0.5 FCE)
 - GLA 1014H *Global Development* (0.5 FCE)
 - GLA 2000H *Capstone Seminar* (0.5 FCE)
 - GLA 2887H *Thesis Preparation Course* (Credit/No Credit; 0.5 FCE)
 - Five elective courses (2.5 FCEs).
- Summer (1.0 FCE):** GLA 2889Y *Dual Degree Master's Thesis* (Credit/No Credit).

Program Length

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

Dual Degree Program: Master of Global Affairs (University of Toronto) / Master of Public Policy (Sciences Po)

Program Description

This dual degree program creates a pathway between the U of T Master of Global Affairs and the Sciences Po Master of Public Policy (MPP) programs. In Year 1, students complete MPP coursework in France at Sciences Po. In the Summer session of Year 1, students complete an internship that is part of the MGA degree program. In Year 2, students complete MGA coursework in Toronto and in the final Summer, complete a Grand Oral Exam as part of the dual degree requirements.

Contact

Master of Global Affairs / Master of Public Policy Program
Web: munkschool.utoronto.ca/mga/joint-degrees/dual-degree-sciences-po-school-public-affairs-paris

Master of Global Affairs Program
Munk School of Global Affairs and Public Policy, University of Toronto
Email: mga@utoronto.ca

Master of Public Policy Program
School of Public Affairs, Sciences Po
Email: sophie.rivieredufour@sciencespo.fr

Application Process

- Applicants must apply through the [Sciences Po admission website](#). Applicants are then jointly selected and admitted by the MGA at the University of Toronto and the MPP at Sciences Po. All applicants must complete the Sciences Po online admissions application. All applicants who are admitted to the dual degree program must then also register in U of T's [School of Graduate Studies online admissions application system](#).

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies of the University of Toronto. Applicants must also satisfy the dual degree program's additional admission requirements stated below.
- An appropriate bachelor's degree with a standing in the final year equivalent to at least a U of T B+, and a cumulative standing equivalent to at least a U of T mid-B.
- Applicants whose primary language is not English and who graduated from a university where the primary language of instruction is not English must provide proof of English-language proficiency. The following tests and scores will be accepted:
 - TOEFL: 100/120 overall;
 - IELTS (International English language testing system): 7, with at least 6.5 for each component;
 - Cambridge English: Advanced;
 - TOEIC: Listening and Reading: 945/990; Speaking and Writing: 360/400;
 - PTE (Pearson Test of English) Academic: 68.

- Proof of French-language proficiency is also necessary if the French track is chosen at Sciences Po. Please consult the Sciences Po website for details.
- The program welcomes applicants from all disciplinary backgrounds.

Program Requirements

During their U of T registration in the MGA program, students must complete a total of **6.0 full-course equivalents (FCEs)**.

Year 1

- Fall and Winter:** Students complete Year 1 courses at Sciences Po.
- Summer:** GLA 1007H *Global Internship* (0.5 full-course equivalent [FCE], 12 weeks) plus a critical reflection paper to be submitted in September of Year 2.

Year 2

- Fall and Winter (5.0 FCEs):**
 - GLA 1001H *Macroeconomics: Markets, Institutions, and Growth* (0.5 FCE)
 - GLA 1003H *Global Security* (0.5 FCE)
 - GLA 1006H *International Legal Challenges* (0.5 FCE)
 - GLA 1009H *Financial Management for Global Organizations* (0.5 FCE)
 - GLA 1011H *Global Innovation Policy* (0.5 FCE)
 - GLA 1014H *Global Development* (0.5 FCE)
 - GLA 2000H *Capstone Seminar* (0.5 FCE)
 - Three elective courses (1.5 FCEs).
- Summer (0.5 FCE):** GLA 2800H *Grand Oral*.

Program Length

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

Global Affairs and Public Policy: Global Affairs MGA Courses

Year 1

Core Courses (Required)

GLA 1001H	Macroeconomics: Markets, Institutions, and Growth
GLA 1003H	Global Security
GLA 1009H	Financial Management for Global Organizations
GLA 1005H	Decision Making and Strategic Thinking in the Global System
GLA 1006H	International Legal Challenges
GLA 1010H	Microeconomics for Global Affairs
GLA 1011H	Global Innovation Policy
GLA 1012H	Statistics for Global Affairs
GLA 1014H	Global Development

Summer Course (Required)

GLA 1007H	Global Internship
-----------	-------------------

Year 2

Core Courses (Required)

GLA 2000H	Capstone Seminar (Required for all MGA students.)
GLA 2800H	Grand Oral (Required for students in the MGA/MPP dual degree program.)
GLA 2887H	Thesis Preparation Course (Credit/No Credit. Required for students in the MGA/MIA dual degree program.)
GLA 2889Y	Dual Degree Master's Thesis (Credit/No Credit. Required for students in the MGA/MIA dual degree program. Prerequisite: GLA 2887H.)

Elective Courses (Subject to Change)

GLA 1013H	Logic of Global Inquiry
GLA 2001H	Global Capital Markets and Global Strategies
GLA 2002H	Issues in Development Policy and Practice
GLA 2003H	Global Governance
GLA 2005H	Negotiating Internationally
GLA 2006H	The Global Political Economy of Finance and Investment
GLA 2007H	Global Affairs Externship (Credit/No Credit)
GLA 2010H	Geopolitics of Cyberspace
GLA 2012H	The Global Political Economy of Trade
GLA 2013H	Topics in Global Violence
GLA 2014H	Innovation and Economic Development
GLA 2015H	Economic Competitiveness and Social Protection
GLA 2016H	Global Legal Strategy
GLA 2018H	Innovation and the City
GLA 2019H	The Political Economy of Development
GLA 2021H	Innovation, Institutions, Governments, and Growth
GLA 2022H	Global Institutions and Diplomacy
GLA 2023H	Justice Reforms in Global Context
GLA 2024H	Intelligence and Covert Action
GLA 2025H	Global Affairs Lab
GLA 2026H	Global Affairs Lab II
GLA 2028H	Global Civil Society
GLA 2030H	Grand Strategy and Global Threats
GLA 2050H	Selected Topics in International Studies
GLA 2060H	Topics in Development I
GLA 2061H	Topics in Development II
GLA 2062H	Topics in Development III
GLA 2063H	Topics in Security I
GLA 2064H	Topics in Security II
GLA 2065H	Topics in Security III
GLA 2066H	Topics in Justice I
GLA 2067H	Topics in Justice II

GLA 2068H	Topics in Justice III
GLA 2069H	Topics in Markets I
GLA 2070H	Topics in Markets II
GLA 2071H	Topics in Markets III
GLA 2080H	Topics in Innovation I
GLA 2081H	Topics in Innovation II
GLA 2082H	Topics in Innovation III
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
JCR 1000Y	An Interdisciplinary Approach to Addressing Global Challenges
JMG 2020H	Big Data
JSE 1708H	Sustainability and the Western Mind

Global Affairs and Public Policy: Public Policy MPP

Master of Public Policy

Program Description

The Munk Schools' prestigious Master of Public Policy (MPP) brings together an impressive array of students and faculty for a two-year, full time program that bridges Canadian and global policy.

In addition to a paid summer internship and a wide range of career support services, students develop core competencies considered essential for policy practice and take electives from both within the Munk School and in the broader University.

Visiting public sector leaders along with a renowned multidisciplinary faculty bridge theory and real world experience, providing contact with senior professionals in government and the broader public, private, and community sectors.

Students may also apply to the [combined JD/MPP](#) degree program as well as pursue collaborative specializations with other graduate departments. A Munk School education, located in the heart of downtown Toronto and in close proximity to an extraordinary concentration of policy leaders, will empower students to achieve their professional and personal goals.

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.

- A four-year bachelor's degree (or equivalent as recognized by the University of Toronto).
- A minimum cumulative grade point average (CGPA) of a B and a minimum GPA of a B+ standing in the final year of undergraduate studies (3.3 out of a possible 4.0 grading scale). Admissions selection to the MPP program is competitive and meeting this minimum requirement does not guarantee admission. Final-year grades are based on the last 5.0 full-course equivalents (FCEs) or 10.0 half-course equivalents.
- 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. See [General Regulations section 4.3](#) for requirements.
- International applicants must submit a Graduate Record Examination (GRE) (general) score.
- International applicants must also submit a translation of transcripts from non-English speaking universities.
- The Munk School offers an in-depth, in-class Math and Statistics Prep Course for students prior to starting Year 1 of the MPP. Details regarding the Prep Course are available to incoming students in the summer before Year 1. While participation is voluntary, students are encouraged to attend.

Program Requirements

- **Coursework.** Students must complete **8.0 full-course equivalents (FCEs)** as follows:
 - 6.5 required core FCEs (see list of required core courses below).
 - Students who do not pass PPG 1002H, PPG 1004H, and/or PPG 1008H must retake the Math-Stats Prep course diagnostic with a grade of at least 60%.
 - 1.5 FCEs from the list of electives offered by University-wide graduate units, one of which must be a PPG course
- **Internship:**
 - PPG 2006Y *MPP Internship*; a mandatory internship taken in the Summer between Year 1 and Year 2 or during Year 2. 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

Global Affairs and Public Policy: Public Policy MPP Courses

Course List

Required Core Courses

MPP1

PPG 1000H	Governance and Institutions
PPG 1001H	The Policy Process
PPG 1002H	Microeconomics for Policy Analysis (Students who do not pass PPG 1002H must retake the Math-Stats Prep course diagnostic with a grade of at least 60%)
PPG 1003H	Macroeconomics for Policy Analysis
PPG 1004H	Quantitative Methods for Policy Analysis (Students who do not pass PPG 1004H must retake the Math-Stats Prep course diagnostic with a grade of at least 60%)
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 (Prerequisite: PPG 1004H; students who do not pass PPG 1008H must retake the Math-Stats Prep course diagnostic with a grade of at least 60%)

MPP2

PPG 2001H	Legal Analysis of Public Policy (Prerequisite: successful completion of at least 3.5 FCEs in MPP1 courses)
PPG 2002H	Topics in Applied Economics for Public Policy (Prerequisite: PPG 1002H and successful completion of at least 3.5 FCEs in MPP1 courses)
PPG 2003H	Capstone Course: Integrating Issues in Public Policy (Prerequisite: successful completion of at least 5.5 FCEs in MPP courses)
PPG 2008H	Comparative Public Policy and Transnational Forces (Prerequisite: successful completion of at least 3.5 FCEs in MPP1 courses)

Choose one of:

PPG 2011H	Ethics and the Public Interest (Prerequisite: successful completion of at least 3.5 FCEs in MPP1 courses)
PPG 2022H	Moral Foundations of Public Policy (Prerequisite: successful completion of at least 3.5 FCEs in MPP1 courses)

Elective Courses

Offered by the Munk School of Global Affairs and Public Policy:

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 2021H	Priority Topics in Public Administration

Cross-Listed with the Faculty of Law:

LAW 7030H	Issues in Aboriginal Law and Policy
-----------	-------------------------------------

Internship

PPG 2006Y	MPP Internship (Prerequisite: successful completion of at least 3.5 FCEs in MPP1 courses)
-----------	--

Health Policy, Management and Evaluation

HPME: Introduction

Faculty Affiliation

Public Health

Degree Programs

Health Policy, Management and Evaluation

MSc

- Concentrations:
 - Clinical Epidemiology and Health Care Research;
 - Health Services Research
 - Emphases:
 - Health Economics;
 - Health Informatics Research;
 - Health Policy;
 - Health Services Organization and Management Studies
 - Health Services Outcomes and Evaluation;
 - Health Systems Artificial Intelligence;
 - Health Technology Assessment;
 - Quality Improvement and Patient Safety;
 - System Leadership and Innovation

PhD

- Concentrations:
 - Clinical Epidemiology and Health Care Research;
 - Health Professions Education Research;
 - Health Services Research

Health Administration

MHSc

Health Informatics

MHI

Combined Degree Programs

- STG, Health Administration, MHSc / MSW (admissions have closed)

Collaborative Specializations

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

- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
- [Bioethics](#)
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Health Policy, Management and Evaluation, MSc (thesis only), PhD
- [Health Care, Technology, and Place](#) (admissions have closed)
 - Health Policy, Management and Evaluation, PhD
- [Health Services and Policy Research](#)
 - Health Policy, Management and Evaluation, MSc, PhD
- [Public Health Policy](#)
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
- [Resuscitation Sciences](#)
 - Health Policy, Management and Evaluation, MSc, PhD
- [Women and Gender Studies](#)
 - Health Administration, MHSc
 - Health Policy, Management and Evaluation, MSc, PhD
- [Women's Health](#)
 - Health Policy, Management and Evaluation, MSc, PhD

Overview

The Institute of Health Policy, Management and Evaluation (IHPME) brings together researchers from a wide range of disciplinary backgrounds. Broad research themes include Clinical Epidemiology and Health Care Research; Health Services Research including Health Informatics Research, Health Economics, Health Policy, Health Services Organization and Management Studies, Health Services Outcomes and Evaluation, Health Technology Assessment, and Knowledge Translation; Health Administration; System Leadership and Innovation; and Quality Improvement and Patient Safety.

More than 200 faculty members from a variety of disciplines are represented in IHPME. At least 130 senior health care executives serve as adjunct faculty.

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 Professions Education Research; Health Services Research

January 15

- MSc in Health Policy, Management and Evaluation concentration: System Leadership and Innovation (Undergraduate Medical Education applicants)

February 1

- Master of Health Informatics
- MHSc in Health Administration
- MHSc in Health Administration / MSW combined degree program
- MHSc in Health Administration / MN combined degree program

March 1

- Master of Health Informatics (executive option)

March 15

- MSc in Health Policy, Management and Evaluation concentration: System Leadership and Innovation (Postgraduate Medical Education applicants)

Contact and Address

Web: ihpme.utoronto.ca/community/connect

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

HPME: Graduate Faculty

Full Members

Aleman, Dionne - BSc, MSc, PhD
Alibhai, Shabbir - MD
Alter, David - MD
Anderson, Geoff - MD
Austin, Peter - PhD
Austin, Zubin - BA, BScPhm, MBA, MSt, MEd, PhD
Baker, G. Ross - AB, MA, PhD
Barrett, Jon - MBChB, MD
Barwick, Melanie - BA, MA, PhD
Baxter, Nancy - DrMed, PhD
Berta, Whitney - BS, MBA, PhD (**Graduate Coordinator until Dec. 2020**)
Bhattacharyya, Onil - BSc, MD
Booth, Gillian - MD
Bronskill, Susan - MSc
Brown, Adalsteinn - AB, PhD
Brydges, Ryan - BSc, MSc, PhD
Cafazzo, Joseph - DPhil
Carroll, June - MD
Carter, Michael - BM, MMath, PhD
Coburn, Natalie Suzanne - BSc, MSc, DrMed
Cockerill, Rhonda W - BA, MA, PhD
Cohen, Eyal - MSc, MD
Colantonio, Angela - BA, BSc(OT), MHSc, PhD
Côté, Pierre - MSc, PhD

Coyte, Peter C. - BA, MA, PhD
Cuthbertson, Brian - MBChB, PhD
Davis, Aileen - BSc(PT), MSc, PhD
Deber, Raisa - BS, MS, PhD
Detsky, Allan - BS, MD, PhD
Etchells, Edward - MSc, MD
Fan, Eddy - BSc, MD, PhD
Feldman, Brian - MD
Ferguson, Niall - MSc, MD
Fisman, David - MPH, MD
Fowler, Robert - MDCM
Gagliardi, Anna - BSc, BE, MSc, MLS, PhD
Gershon, Andrea - MSc, MD
Griffiths, Anne - MD
Gupta, Sumit - MD
Guttmann, Astrid - BA, AB, MSc, MSc, MDCM
Hoch, Jeffrey - BA, MA, PhD
Hogg-Johnson, Sheilah - BMath, MMath, PhD
Howell, Doris - BNSc, MSN, PhD
Ivers, Noah - MD
Karkouti, Keyvan - MD
Krings, Timo - MSc, MD, PhD
Kulkarni, Abhaya - BSc, MD, PhD
Kuper, Ayelet - AB, MEd, MD, PhD
Laporte, Audrey - BA, MA, PhD (**Director**)
Laupacis, Andreas - MD
Law, Calvin - CPSO, LMCC, MPH, MD
Lee, Douglas - DrMed, PhD
Lin, Elizabeth - PhD
Lipscombe, Lorraine - MSc, MD
Loutfy, Mona - MPH, MD
Lunsky, Yona - PhD
Mamdani, Muhammad - DP
Marchildon, Gregory - PhD
Martimianakis, Tina - MA, MEd, PhD
McCrindle, Brian - MD
McGahan, Anita - BA, MA, MBA, PhD
McGeer, Allison - BSc, MSc, MD
Miller, Fiona - BS, MA, DPhil
Morrison, Laurie - BSc
Mylopoulos, Maria - BS, MA, PhD
Naimark, David - MD
Nam, Robert - MSc, MD
Nathan, Paul - BA, MSc, MD
Nathens, Avery - MPH, MD, PhD
Nauenberg, Eric - AB, MPH, PhD
Naylor, C. David - MD, PhD
Nguyen, Geoffrey - MD
Parekh, Rulan - MD
Parshuram, Christopher - MBChB
Pullenayegum, Eleanor - BM, PhD
Ray, Joel - MSc, MD
Redelmeier, Donald - MS, MD
Rehm, Jurgen - PhD
Robinson, Lawrence - BA, MD
Rochon, Paula - MD
Ross, Lori Elizabeth - BSc, PhD, DPhil
Rubinfeld, Gordon - MSc, MD
Sander, Beate - PhD
Schwartz, Robert - BA, PhD
Seto, Emily - PhD
Shachak, Aviv - DPhil (**Graduate Coordinator**)
Shah, Vibhuti - MD
Stabile, Mark - BA, MA, PhD, PhD
Straus, Sharon Elizabeth - MSc, MD
Stukel, Therese - BS, PhD
Sung, Lillian - MD
Sutradhar, Rinku - BSc, MMath, PhD
To, Teresa - BSc, MSc, PhD

Tomlinson, George - BSc, MSc, PhD
 Trbovich, Patricia L - BA, MA, PhD, PhD
 Tu, Karen - BSc, MD
 Ungar, Wendy - BA, MSc, PhD
 Urbach, David - MSc, MD
 Vigod, Simone - MD
 Wales, Paul - BSc, MSc, MD
 Webster, Fiona - BA, MA, PhD
 Whitehead, Cynthia - AB, MHSc, MD, PhD
 Wijeyesundera, Duminda - MSc, MD
 Wijeyesundera, Harindra - BSc, MD, PhD
 Wiljer, David - PhD
 Wodchis, Walter - MA, PhD
 Woods, Nicole - BA, PhD
 Wright, James - BA, LMCC, MPH, MD

Members Emeriti

Barnsley, Jan - BSc, MSc, PhD
 Henry, David - MD
 Lemieux-Charles, Louise - PhD
 Williams, Paul - PhD

Associate Members

Abbasi, Nimrah - MSc, MD
 Abrahamyan, Lusine - MPH, MD, PhD
 Albert, Mathieu - PhD
 Amin, Reshma - MD
 Amir, Eitan - MBChB
 Ammendolia, Carlo - MedScD
 Anderson, James - BA, MA, MHSA, PhD
 Andiappan, Meena - PhD
 Ardal, Sten - BA, MA
 Asztalos, Elizabeth - BScN
 Atzema, Clare - BA, MSc, MD
 Baigrie, Brian - BA, MA, PhD
 Barnett Tapia, Carolina - DrMed
 Benassi, Paul - BSc, MD
 Berger, Howard - BSc, MD
 Berger, Ken - MD, JD
 Berinstein, Corrine - BHSc(PT), MBA, MHSc
 Birken, Catherine - MSc, MD
 Blackstien-Hirsch, Paula - MHSc, MHSA, MHSA
 Bombard, Yvonne - PhD
 Borkhoff, Cornelia - BSc, MSc, PhD
 Born, Karen - BA, MSc, PhD
 Brar, Mantaj - BS, MS, MD
 Brezden-Masley, Christine - MD, PhD
 Buchan, Sarah AW - MSc, PhD
 Bunger, Alicia - PhD
 Cammisa, Giuseppe - MBA
 Chahal, Jaskarndip - BSc, MSc, MD
 Chakraborty, Pranesh - MD
 Chan, An-Wen - BSc, MD, DPhil
 Chan, Ben - BSc, MPH, MPA, MD
 Charach, Alice - MD
 Chatwood, Susan - BScN, MSc, MSc
 Chiu, Maria - BE, BA, MSc, PhD
 Clarke, Hance - MSc, MD
 Cram, Peter - BA, MBA, MD
 Craven, Beverley Catharine - MD
 Darling, Gail - BSc, MD
 De Mestral, Charles - MDCM, PhD
 Dhalla, Irfan - BAA, MSc, MD
 Dolatabadi, Elham - BScEE, MEng, PhD
 Drucker, Aaron - MS, MD

Dubinsky, Isser - BSc, MD, MD
 Durbin, Janet - MSc
 Esensoy, Ali - PhD
 Fam, Mark - MHSA
 Feeny, David - PhD
 Fehlings, Darcy - MD
 Gall, Carie - BA, BSc(OT)
 Gamble, Brenda - BA, MS, PhD
 Gien, Lilian - BSc, MHPE, MD
 Gill, Peter - MS, MD, DPhil
 Ginsburg, Shiphra - MEd, MD
 Ginzburg, Amir - BSc, MD
 Girard-Pearlman, Jeannine - BScN, BHA, DHA
 Gomes, Tara - BSc, MHSc
 Gotlib Conn, Lesley - BA, MA, PhD
 Guerriere, Denise - PhD
 Guilcher, Sara - BSc, MSc, MSc(PT), PhD
 Gupta, Samir - MSc, MDCM
 Hall, Ruth - BASc, MSc
 Hancock Howard, Rebecca - PhD
 Hassan, Hazim - MBA
 Hendrick-Hallet, Julie - MSc, MD
 Herridge, Margaret - MD
 Hirschfield, Gideon - MA, PhD
 Howard, Andrew William - BA, CPSO, MSc, LMCC, MD
 Huszti, Ella - MSc, PhD
 Isaranuwachai, Wanrudee - BSc, PhD
 Jaakkimainen, Liisa - BSc, MSc, MD
 Jackevicius, Cynthia - BS, MSc
 Karanickolas, Paul - BSc, DrMed, PhD
 Kastner, Monika - BSc, MSc, PhD
 Kim, Joseph - MHSc, MD, PhD
 Kiran, Tara - BSc, MPH, MD
 Kiss, Alexander - PhD
 Ko, Dennis - MD
 Koyle, Martin - DrMed
 Kreder, Hans-Juergen - MPH, MD
 Kulasegaram, Kulamakan - BSc, PhD
 Kumbhare, Dinesh - BSc, MHSc, MD
 Ladha, Karim - AB, MSc, MD
 Levitt, Kevin Samuel - BSc, MSc, MD
 Levy, Charissa - MHSc
 Lexchin, Joel - BSc, MSc, MD
 Lin, Steve - MSc, MD
 Lix, Lisa - PhD
 Loblaw, Andrew - MD
 Look Hong, Nicole - BSc, MSc, MD
 Lotfollahi Shabestari, Omid - MD, PhD
 Luo, Zhong-Cheng - MMed, BM, PhD
 Maetzel, Andreas - MSc, PhD
 Maguire, Jonathon - BSc, MSc, MSc, MD
 Maham, Nava - MSc, MD
 Mahar, Alyson - PhD
 Mandigo, Margaux - MSc
 Marrie, Ruth Ann - BSc, MSc, MD, PhD
 Martin, Danielle - BSc, DrMed
 Martin, Taylor - MHSA
 Mashford-Pringle, Angela - BS, MA, DPhil
 Maurer, Daphne - PhD
 McNaughton, Nancy - BA, MEd, PhD
 Mishra, Sharmistha - BSc, MD
 Mittmann, Nicole - PhD
 Moffat, Malcolm - BS, BSc, MHSc
 Moore, Lynn - MHSA
 Muller, Matthew - MD
 Munce, Sarah - BSc, MSc, PhD
 O'Brien, Kelly - BSc(PT), BS, PhD
 Pace, Kenneth - BSc, MSc, LRCP, MD
 Papadakos, Janet - BA, MEd, PhD

Paszat, Lawrence - MS, MD
 Paul, Robert - PhD
 Penner, Melanie - MD
 Perruccio, Anthony - BSc, MHSc, PhD
 Persaud, Navindra - BSc, BA, MSc, MD
 Petch, Jeremy - BA, MA, PhD
 Pitzul, Kristen - PhD
 Prokopy, Melissa - LLB
 Puchalski-Ritchie, Lisa - MA, MD
 Rac, Valeria - MD, PhD
 Rackow, Valerie - BS, MHSc
 Ringash, Jolie - MSc, MD
 Roifman, Idan - DrMed
 Rossos, Peter - MD
 Rowland, Paula - BS, BS
 Rudoler, David - BA, MA, PhD
 Scheer, Adena - BSc, MSc, MD
 Schull, Michael - MD
 Shah, Baiju - MD
 Shah, Prakeshkumar - MD
 Shaw, James - MSc(PT), PhD
 Shehata, Nadine - MEd, MD
 Shelton, Dominick - BSc, MD
 Sholzberg, Michelle - BSc, DrMed
 Silver, Frank - MD
 Silver, Michelle - BA, BS, MA, PhD
 Smith, Tina - BSc, MHSc
 Spalding, Karen - MSc, PhD
 Sridharan, Sanjeev - BTech, MS, PhD
 Sriharan, Abi - BSc, MSc, PhD, PhD
 Stanbrook, Matthew - MSc, MD
 Stuart, Neil - BA, MSW, PhD
 Sulkers, Paul - MSc
 Szatmari, Peter - MSc, BScMed, MD
 Tavares, Walter - MS, PhD
 Teare, Gary - MSc, DrMedVet, PhD
 Touma, Zahi - BSc, MD, PhD
 Udell, Jacob - BSc, MPH, MD
 Urowitz, Sara - PhD
 Urquhart, Robin - PhD
 Verma, Amol A. - MPH, MD
 Wahi, Gita - MD
 Walker, Neil - BBA, MHSc
 Walsh, Catharine - MEd, MD
 Walters, Thomas - MBBS
 Wong, Karen - BSc, MSc, MD
 Yeh, Ann - MD
 Yu, Amy - MSc, MD
 Zarb, Julia - PhD
 Zhang, Cynthia - BS, MHSc
 Zubairi, Mohammad Samad Yaseen - MD
 Zywiell, Michael - BS, MS, MD

- Quality Improvement and Patient Safety; and
- System Leadership and Innovation.

The MSc program can be taken on a full-time or part-time basis.

Concentration: Clinical Epidemiology and Health Care Research

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 this concentration, a degree in a health profession (e.g., MD, BScN, BScOT, BScPT, DDM, MScN) from a recognized university with a B+ average in the final two years is required.

Program Requirements

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 in electives.
- 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 in electives.

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

HPME: Health Policy, Management and Evaluation MSc

Master of Science

Program Description

The HPME graduate program offers the following concentrations leading to the MSc degree:

- Clinical Epidemiology and Health Care Research;
- Health Services Research;

Concentration: Health Services Research

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 university with a B+ average in the final two years is required.

Program Requirements

Two options are available:

- Thesis option comprising 3.0 full-course equivalents (FCEs) and a thesis.
- Coursework-only option comprising 5.0 FCEs.

Thesis MSc

- Completion of **3.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE in research methodology courses
 - 1.0 FCE in health services research courses
 - 1.0 FCE in electives.
- A **thesis** written under the supervision of a thesis committee and its defence before an examination committee.

Coursework-Only MSc

- Completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE in health services research courses, normally HAD 5011H, HAD 5022H, HAD 5727H, HAD 5756H, and HAD 5773H
 - 1.0 FCE in research methodology courses, normally HSR 1001H, HAD 5765H, HAD 5772H, HAD 5740H, HAD 5742H, HAD 5744H, HAD 5746H, HAD 5779H, and HAD 5781H
 - 3.0 FCEs in electives from HAD 5726H, HAD 5728H, HAD 5730H, HAD 5737H, HAD 5738H, HAD 5743H, HAD 5744H, HAD 5760H, HAD 5763H, HAD 5771H, HAD 5778H, HAD 5780H, and HAD 6750H.

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

Students in the **thesis option of the Health Services Research concentration** have the option to **complete an emphasis** by completing **2.0 full-course equivalents (FCEs)** in a given area. The emphasis requirements will also count toward their 3.0 FCE concentration requirements.

Students in the Vector pathway within the Health Services Research concentration must complete the emphasis in Health Systems Artificial Intelligence and complete their remaining 1.0 FCE concentration requirements by taking HAD 5011H and HAD 5772H.

Emphasis: Health Economics

Students must complete 2.0 FCEs as follows:

- HAD 5730H *Economic Evaluation Methods for Health Service Research*.
- HAD 5744H *Applied Health Econometrics I*.
- HAD 5746H *Applied Health Econometrics II*.
- HAD 5760H *Advanced Health Economics and Policy Analysis*.

Emphasis: Health Informatics Research

Students must complete 2.0 FCEs as follows:

- HAD 5726H *Evaluation and Research Design in Health Informatics*.
- 1.0 FCE from the course listing for the Health Services Research concentration.
- 0.5 FCE from courses in the Master of Health Informatics program.

Emphasis: Health Policy

Students must complete 2.0 FCEs as follows:

- 0.5 FCE from the following list:
 - CHL 5300H *Public Health Policy*
 - CHL 5308H *Tools and Approaches for Public Health Policy Analysis and Evaluation*
 - HAD 5022H *Politics, Policy, Public Health and Health Technology*
 - HAD 5765H *Case Studies in Health Policy*
 - HAD 5778H *Comparative Health Systems and Policy*.
- 1.5 FCEs from the following list:
 - HAD 5742H *Mixed Methods for Health Services Research*
 - HAD 5760H *Advanced Health Economics and Policy Analysis*
 - HAD 5773H *Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector*
 - HSR 1001H *Introduction to Qualitative Methods for Health Services and Policy Research*

Emphasis: Health Services Organization and Management Studies

Students must complete 2.0 FCEs as follows:

- HAD 5773H *Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector*.
- 1.5 FCEs from the following list:
 - HAD 5727H *Knowledge Transfer and Exchange*
 - HAD 5737H *Tools for Implementation of Best Evidence*
 - HAD 5740H *Intermediate Level Qualitative Research for Health Services and Policy Research*

- HAD 5742H *Mixed Methods for Health Services Research*
- HAD 5744H *Applied Health Econometrics I*
- HSR 1001H *Introduction to Qualitative Methods for Health Services and Policy Research*.

Emphasis: Health Services Outcomes and Evaluation

Students must complete 2.0 FCEs as follows:

- HAD 5730H *Economic Evaluation Methods for Health Service Research*
- HAD 5743H *Evaluation Design For Complex Interventions*
- HAD 5763H *Advanced Methods in Health Services Research*
- 0.5 FCE from the course listing for the Health Services Research concentration.

Emphasis: Health Systems Artificial Intelligence

- Students must complete 2.0 FCEs as follows:
 - CHL 3020H *Ethics and AI in Health*
 - CHL 5230H *Applied Machine Learning for Health Data* (research methods course)
 - MHI 2002H *Emergent Topics in Health Informatics*
 - 0.5 FCE from the course listing for the Health Services Research concentration or the Master of Health Informatics program. Recommended: HAD 5726H *Evaluation and Research Design in Health Informatics*.

Emphasis: Health Technology Assessment

- Students must complete 2.0 FCEs as follows:
 - HAD 5301H *Introduction to Clinical Epidemiology and Health Care Research*.
 - HAD 5307H *Introduction to Applied Biostatistics*.
 - 0.5 FCE from the course listing for the Health Services Research concentration.
 - 0.5 FCE from the following list:
 - HAD 5730H *Economic Evaluation Methods for Health Service Research*
 - HAD 5771H *Resource Allocation Ethics*
 - HAD 5779H *Evidence Synthesis for Health Services, Systems, and Policy Research*.

Concentration: 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.

Program Requirements

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:
 - 2.5 FCEs required: HAD 3010H, HAD 3020H, HAD 3041Y⁰, HAD 3050H.
 - 0.5 FCE in electives.
- A **thesis** written under the supervision of a thesis committee (comprising the supervisor and at least one additional graduate faculty member, preferably two) and its defence before an examination committee.

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 in electives.

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

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

Concentration: System Leadership and Innovation

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.
- Applicants 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

The MSc in System Leadership and Innovation is a coursework-only program.

- Completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 2.0 required FCEs (HAD 2001H; HAD 2002H or HAD 2012H; HAD 2003H or HAD 2013H; HAD 2004H or HAD 2007H)
 - 1.0 required practicum FCE (HAD 2010H and HAD 2020H or HAD 2040Y)
 - 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

HPME: Health Policy, Management and Evaluation PhD

Doctor of Philosophy

Program Description

The HPME graduate program offers three concentrations leading to the PhD degree: 1) Clinical Epidemiology and Health Care Research; 2) Health Professions Education Research; and 3) Health Services Research.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MA or MSc degree; 2) transfer from the University of Toronto MSc/PhD transfer program; 3) direct entry following completion of a health professional (MD) degree.

The PhD program can be taken on a full-time or flexible-time basis. 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.

PhD Program

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

- Completion of a **comprehensive course**.
- Completion of **5.0 full-course equivalents (FCEs)** from the PhD courses 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.
- Students enrolled in the Health Professions Education Research concentration must select 2.5 FCEs compulsory courses from the Health Professions 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.

Program Length

4 years full-time; 5 years transfer-from-masters; 5 years direct-entry

Time Limit

6 years full-time; 7 years transfer-from-masters; 7 years direct-entry

Concentration: Health Services Research

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.
- 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. This option benefits mature students with career and/or familial obligations.

Program Requirements

- Students must select one of six emphases, and complete the required emphasis courses listed below.
- Completion of **5.0 full-course equivalents (FCEs)** including:
 - A comprehensive course (0.5 FCE) specified as part of the requirements for each emphasis below.
 - 2.0 FCEs as follows: HAD 5011H, HAD 5772H, HAD 6760H, and HAD 6770H.
 - Writing of a PhD thesis under the supervision of an approved thesis committee (supervisor plus at least two additional graduate faculty members).
 - Final Oral Examination of the thesis before an examination committee.

Program Length

4 years full-time; 5 years transfer-from-masters; 5 years direct-entry

Time Limit

6 years full-time; 7 years transfer-from-masters; 7 years direct-entry

Students enrolled in the **Health Services Research Concentration** of the PhD Program must pursue **one of six emphases**, described below, and complete six courses (**3.0 full-course equivalents [FCEs]**) related to their declared emphasis.

Emphasis: Health Economics

Students must complete 3.0 FCEs as follows:

- HAD 5730H *Economic Evaluation Methods for Health Service Research*.
- HAD 5744H *Applied Health Econometrics I*.
- HAD 5746H *Applied Health Econometrics II*.
- HAD 5760H *Advanced Health Economics and Policy Analysis*.
- HAD 6750H *Advanced Health Economics and Policy Analysis II*.
- 0.5 FCE from the course listing for the Health Services Research concentration.

Emphasis: Health Informatics Research

Students must complete 3.0 FCEs as follows:

- HAD 5726H *Evaluation and Research Design in Health Informatics*.
- HAD 6764H *eHealth Innovation and Health Information Management Comprehensive Course*.
- Two courses (1.0 FCE) from the course listing for the Health Services Research concentration.
- Two courses (1.0 FCE) from the course listing for the Master of Health Informatics program.

Emphasis: Health Policy

Students must complete 3.0 FCEs as follows:

- HAD 5778H *Comparative Health Systems and Policy*.
- HAD 6763H *Health Policy Comprehensive Course*.
- Four courses (2.0 FCEs) from the following list:
 - CHL 5300H *Public Health Policy*
 - CHL 5308H *Tools and Approaches for Public Health Policy Analysis and Evaluation*
 - HAD 5022H *Politics, Policy, Public Health and Health Technology*
 - HAD 5742H *Mixed Methods for Health Services Research*
 - HAD 5760H *Advanced Health Economics and Policy Analysis*
 - HAD 5765H *Case Studies in Health Policy*
 - HAD 5773H *Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector*
 - HSR 1001H *Introduction to Qualitative Methods for Health Services and Policy Research*.

Emphasis: Health Services Organization and Management Studies

Students must complete 3.0 FCEs as follows:

- HAD 5742H *Mixed Methods for Health Services Research*.
- HAD 5773H *Introduction to Theories of Organizational Behaviour and Applications to the Health Care Sector*.
- HAD 6762H *Health Services Organization and Management Comprehensive Course*.
- HSR 1001H *Introduction to Qualitative Methods for Health Services and Policy Research*.
- Two courses (1.0 FCE) from course listing for the Health Services Research concentration.

Emphasis: Health Services Outcomes and Evaluation

Students must complete 3.0 FCEs as follows:

- HAD 5730H *Economic Evaluation Methods for Health Service Research*.
- HAD 6761H *Health Services Outcomes and Evaluation Comprehensive Course*.
- Two courses (1.0 FCE) from the following list:
 - HAD 5743H *Evaluation Design for Complex Interventions*
 - HAD 5763H *Advanced Methods in Health Services Research*
 - HAD 5742H *Mixed Methods for Health Services Research*
 - HAD 5779H *Evidence Synthesis for Health Services, Systems and Policy Research*

- HAD 5740H *Intermediate Level Qualitative Methods for Health Services and Policy Research*
- HAD 5728H *Performance Measurement in Health Care: Theory and Application*
- HAD 5781H *Case Study Research for Health Services, Systems and Policy*.
- Two courses (1.0 FCE), generally advanced methods courses, from the course listing for the Health Services Research concentration.

Emphasis: Health Technology Assessment

Students must complete 3.0 FCEs as follows:

- HAD 5301H *Introduction to Clinical Epidemiology and Health Care Research*.
- HAD 6765H *Health Technology Assessment Comprehensive Course* (Credit/No Credit).
- Three courses (1.5 FCEs) from the course listing for the Health Services Research concentration.
- One course (0.5 FCE) from the following list:
 - HAD 5730H *Economic Evaluation Methods for Health Service Research*
 - HAD 5771H *Resource Allocation Ethics*
 - HAD 5779H *Evidence Synthesis for Health Services, Systems and Policy Research*.

PhD Program (Flexible-Time)

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.

Program Requirements

- 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 must register full-time for the first four years of their program (Fall, Spring, Summer sessions); thereafter, they may register part-time.
- Completion of a **comprehensive course**.
- Completion of **5.0 full-course equivalents (FCEs)** from the PhD courses 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.
- Students enrolled in the Health Professions Education Research concentration must select 2.5 FCEs compulsory courses from the Health Professions 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.

Program Length

6 years

Time Limit

8 years

HPME: MSc, PhD Courses

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

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
HAD 5316H	Biostatistics II: Advanced Techniques in Applied Regression Methods (prerequisite: HAD 5307H or CHL 5201H)
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 extra-departmental courses may be considered as elective courses and are subject to approval of the Institute of Health Policy, Management and Evaluation.

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

Concentration: Health Professions Education Research

Required Courses

HAD 5011H	Canada's Health Care System and Health Policy (Doctoral Stream)
HAD 6500H	Essential Skills in HPER
HAD 6501H	Introduction to Methods/Methodologies for HPER
HAD 6502H or HAD 6503H	Survey of Critical and Interpretive Social Science Theory for HPER or Survey of Cognitive, Behavioural, and Epidemiological Sciences Theory
HAD 6504H or HAD 6505H	Intermediate Critical and Interpretive Social Science Methods or Intermediate Cognitive, Behavioural, and Epidemiological Sciences Methods
HAD 6560H	Health Professions Education Research (HPER) Comprehensive Exam

Elective Courses

All Health Services Research courses and Clinical Epidemiology and Health Care Research courses or extradepartmental courses may be considered as elective courses and are subject to approval of the Institute of Health Policy, Management and Evaluation.

Concentration: Health Services Research

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 5022H	Politics, Policy, Public Health, and Health Technology
HAD 5726H	Evaluation and Research Design in Health Informatics
HAD 5727H	Knowledge Transfer and Exchange
HAD 5728H	Performance Measurement in Health Care: Theory and Application
HAD 5730H	Economic Evaluation Methods for Health Service Research
HAD 5737H	Tools for Implementation of Best Evidence
HAD 5738H	Advanced Methods in Economic Evaluation
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	Applied Health Econometrics I
HAD 5745H	Where Health Economics Hits the Road: Practical Applications of Economics to Real Health Care Problems
HAD 5746H	Applied Health Econometrics II
HAD 5755Y	Health Economics Graduate Seminar Series (Credit/No Credit)
HAD 5760H	Advanced Health Economics and Policy Analysis
HAD 5763H	Advanced Methods in Health Services Research
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 5777H	Leading and Managing Change: Building Adaptive Capacity
HAD 5778H	Comparative Health Systems and Policy
HAD 5779H	Evidence Synthesis for Health Services, Systems and Policy Research
HAD 5780H	Program Planning and Evaluation for Health Services and Policy Research
HAD 5781H	Case Study Research for Health Services, Systems and Policy
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 6765H	Health Technology Assessment Comprehensive Course (Credit/No Credit)
HAD 6770H	Applying Health Services Research Methods (prerequisite: HAD 6760H)
HAD 7001H	Reading Course
JNH 5001H	Health Care Settings, Site, and Human Well Being

JNH 5003H	Home and Community Care Knowledge Translation
-----------	---

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

Concentration: Quality Improvement and Patient Safety

Required Courses

HAD 3010H	Fundamentals of Improvement Science
HAD 3020H	Quality Improvement Methods
HAD 3025H	Teaching QI and Patient Safety (prerequisites: HAD 3010H, HAD 3020H, HAD 3040Y ⁺)
HAD 3030H	Concepts and Strategies in Patient Safety
HAD 3040Y ⁺	Project Practicum
HAD 3041Y ⁰	Design and Methods for Thesis Research
HAD 3050H	Leading and Managing Change
HAD 3060H	Quality Improvement in Health Systems
HAD 3070H	Health Law and Risk Management for Quality Improvement and Patient Safety

Practicum Course

HAD 3080H	External Practicum
-----------	--------------------

Elective Courses

HAD 3090H	The Application of Lean in Healthcare
HAD 4000H	Reading Course — QIPS

* *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.*

Concentration: System Leadership and Innovation

Required Courses

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

Practicum Courses

HAD 2010H	Health Systems Leadership Practicum (Individual) (Credit/No Credit)
HAD 2011H ⁰	Individual Practicum — Quality Improvement
HAD 2020H	Health Systems Consulting Practicum (Team) (Credit/No Credit)

Elective Courses

HAD 2005H	Quality Improvement Skills for Healthcare Leaders
HAD 2006H	Accelerating Innovations in Medical Education
HAD 2007H	Leading Health Systems innovation and Transformation (prerequisite: HAD 2004H)
HAD 2008H	Coaching Skills for Health Care Leaders (prerequisite: HAD 2004H)
HAD 2012H	Learning Health Systems: Research Tools, Approaches, and Lessons
HAD 2013H	Fundamentals of Health Economics and Policy
HAD 2030H	Health Systems Innovation Capstone (Credit/No Credit) (prerequisites: HAD 2001H, HAD 2002H, HAD 2003H, HAD 2004H, HAD 2005H, HAD 2010H, HAD 2020H)
HAD 2040Y ⁰	Systems Innovation and Leadership Project Course (Credit/No Credit) (prerequisites: HAD 2001H, HAD 2003H, and HAD 2004H)

Cross-Listed Courses

These courses are limited to certain program students in Health Policy, Management and Evaluation. Please check the [IHPME website](#).

BME 1456H	Changing Health Care Technologies, People, and Places
HSR 1001H	Introduction to Qualitative Methods for Health Services and Policy Research
HSR 1002H	Health Services Research Seminar (Credit/No Credit)
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
LAW 404H	Health System Law and Policy
LAW 465H	Conflicts of Interest in Medicine: Evidence, Public Policy, and the Law

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

HPME: Health Administration MHSc

Master of Health Science

Program Description

The MHSc 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)** as follows:
 - 9.0 FCEs are required subjects, which include a minimum of 1.0 FCE in a field placement.
 - the remaining 1.0 FCE are elective courses.

Program Length

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

Time Limit

3 years full-time

HPME: Health Administration MHSc Courses

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
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 and Ethics
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 5800H	Creating a Framework for Continuous Leadership Development (prerequisites: all courses in Blocks 1 to 3 , plus HAD 5725H, HAD 5741H, and HAD 5769H)
HAD 6010Y+	Health Care Leadership Practicum (Credit/No Credit)
HAD 6011H*	Health Care Leadership 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 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

HPME: Health Informatics MHI

Master of Health Informatics

Program Description

The Master of Health Informatics (MHI) 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.

There are two options available to complete the MHI:

- Regular MHI option:** This is designed for individuals who are not currently in a health informatics profession and are seeking a career in the field. Applicants to this option should not be employed full-time.
- Executive MHI option:** This is designed for individuals who are currently employed in the health informatics profession

and are interested in pursuing leadership positions and other career development. Applicants to this option must be employed in the health informatics sector and have an executive sponsor at their place of employment.

Regular MHI Option

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. 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.
- 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. See [General Regulations section 4.3](#) for requirements.
- 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 full-course equivalents (FCEs)** as follows:
 - required coursework (7.5 FCEs),
 - elective coursework (0.5 FCE), and
 - a four-month, full-time practicum or field placement (MHI 2005Y [2.0 FCEs]).
- Degree requirements will be completed in 16 months across four consecutive sessions.

Required Courses for the Regular MHI Option

HAD 5010H	Canada's Health System and Health Policy: Part I
INF 1003H	Information Systems, Services, and Design
MHI 1001H	Information and Communication Technology in Health Informatics
MHI 1002H	Complexity of Clinical Care
MHI 2001H	Fundamentals of Health Informatics
MHI 2002H	Emergent Topics in Health Informatics
MHI 2003H	Emerging Applications in Consumer, Public, and Global Health Informatics
MHI 2004H	Human Factors and Systems Design in Health Care
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
MHI 2017H	Systems Analysis and Process Innovation in Healthcare
MHI 2018H	Knowledge Management and Systems

Practicum Course

MHI 2005Y	Practicum Placement
-----------	---------------------

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 2012H	Introduction to Big Data for Health: Foundations and Methodologies
MHI 2013H	Data Visualization in Health Care
MHI 3000H	Independent Reading for Health Informatics

Program Length

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

Time Limit

3 years full-time

Executive MHI Option

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. 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.
- 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. See [General Regulations section 4.3](#) for requirements.
- 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.

- Additional requirements for the executive MHI option are as follows:
 - active employment in a health informatics role or capacity; and
 - an executive sponsor at the site of employment, committed to supervising and supporting the student's program including the health informatics project; see program requirements below.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - required coursework (7.5 FCEs),
 - elective coursework (1.0 FCE), and
 - a four-month, employer-sponsored *Health Informatics Project* (MHI 2015Y [1.5 FCEs]).
- The executive MHI degree requirements will be completed in 22 months across six consecutive sessions.

Required Courses

HAD 5010H	Canada's Health System and Health Policy: Part 1
INF 1003H	Information Systems, Services, and Design
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
MHI 2003H	Emerging Applications in Consumer, Public and Global Health Informatics
MHI 2004H	Human Factors and Systems Design in Health Care
MHI 2006H	Advanced Topics in Health Informatics (Strategic Frameworks for Solution Architecture)
MHI 2007H	Quantitative Skills in Health Informatics
MHI 2008H or HAD 5731H or HAD 5733H	Project Management for Health Informatics or Translating Leadership into Practice or Health Services Finance
MHI 2009H	Evaluation Methods for Health Informatics
MHI 2011H	Performance Measurements in Health Care: Theory and Application
MHI 2017H	Systems Analysis and Process Innovation in Healthcare
MHI 2018H	Knowledge Management and Systems
MHI 3000H	Independent Reading for Health Informatics

Practicum Course

MHI 2015Y	Health Informatics Project
-----------	----------------------------

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 2012H	Introduction to Big Data for Health: Foundations and Methodologies
MHI 2013H	Data Visualization in Health Care
MHI 2016H	Health Informatics Project Extension
MHI 3000H	Independent Reading for Health Informatics

Program Length

6 sessions full-time (S/F/W/S/F/W)

Time Limit

3 years full-time

History

History: Introduction

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:
 - Contemporary International History (MA only);
 - 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 Specializations

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

- [Book History and Print Culture](#)
 - History, MA, PhD
- [Contemporary East and Southeast Asian Studies](#)
 - History, MA
- [Diaspora and Transnational Studies](#)
 - History, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - History, PhD
- [Ethnic and Pluralism Studies](#)
 - History, MA, PhD
- [Food Studies](#)
 - History, MA, PhD

- [Jewish Studies](#)
 - History, MA, PhD
- [Sexual Diversity Studies](#)
 - History, MA, PhD
- [South Asian Studies](#)
 - History, MA, PhD
- [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 and Public Policy; 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 specializations.

Contact and Address

Web: history.utoronto.ca
 Email: history.gradadmin@utoronto.ca
 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

History: Graduate Faculty

Full Members

Anastakis, Dimitry - PhD
 Austin, Robert - BA, MA, PhD
 Bartlett, Kenneth - BA, MA, PhD
 Bender, Daniel Eric - BA, PhD
 Bergen, Doris - MA, PhD
 Birla, Ritu - BA, MPH, PhD
 Bohaker, Heidi - BA, BEd, MA, DPhil
 Bothwell, Robert - BA, AM, PhD
 Brown, Elspeth - MA, PhD

Chen, Li - BA, MA, AM, JD, PhD
 Chin, Carol - BA, MA, PhD
 Cochelin, Isabelle - DipdESup, BA, MA, PhD
 Cohen, Paul - AM, PhD
 Coleman, Kevin - PhD
 Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
 Everett, Nicholas - BA, MA, PhD
 Fujitani, Takashi - BA, MA, PhD
 Gervers, Michael - BA, MA, PhD
 Goering, Joseph - BA, MA, MSL, PhD
 Greer, Allan - BA, MA, PhD
 Hall, Bert - BA, PhD
 Halpern, Rick - PhD
 Hanssen, Jens - BPhil, DPhil
 Hawkins, Sean - MA, PhD
 Hill, Susan - PhD
 Hood, Adrienne - PhD
 Iacovetta, Franca - AB, AM, PhD
 Ingham, John - BA, MA, PhD
 Jenkins, Jennifer - BA, MA, PhD
 Jennings, Eric - BA, MA, PhD
 Kasekamp, Andres - PhD
 Kasturi, Malavika - DPhil
 Kawashima, Ken - BA, MA, PhD
 Kazal, Russell - AB, MA, PhD
 Keil, Charlie - BA, MA, PhD
 Kidd, Bruce - BA, AM, MA, PhD, OC
 Kivimae, Juri - AM, PhD
 Lahusen, Thomas - MA, PhD
 Lam, Tong - BSc, MA, PhD
 Loeb, Lori - BA, PhD
 MacDowell, Laurel - BA, MSc, PhD
 MacMillan, Margaret - BPhil, DPhil
 Magocsi, Paul - BA, MA, MA, PhD, FRSC
 Mar, Lisa - PhD
 McGowan, Mark - BA, MA, PhD
 Meyerson, Mark - BA, PhD (**Associate Chair, Graduate**)
 Mills, Sean - MA, PhD
 Morgan, Cecilia Louise - BA, BA, MA, PhD
 Mori, Jennifer - PhD
 Murphy, Michelle - BA, PhD
 Musisi, Nakanyike - PhD
 Newton, Melanie - BA, PhD
 Noel, Janet - BA, MA, PhD
 Penfold, Steve - MA, PhD
 Phillips, James - LLB, MA, PhD
 Pilcher, Jeffrey - BA, MA, PhD
 Pruessen, Ronald - BA, MA, PhD
 Radforth, Ian - BA, MA, PhD
 Raman, Bhavani - BA, MA, PhD
 Retallack, James - BA, DPhil
 Rockel, Stephen - AM, DPhil
 Rothman, Natalie - MA, DPhil
 Schmid, André - BA, MA, PhD
 Sharma, Jayeeta - BA, MPH, MA, PhD
 Shorter, Edward - BA, MA, PhD
 Silano, Giulio - BA, LLB, BEd, MA, PhD
 Smith, Alison - AM, PhD (**Chair and Graduate Chair**)
 Smyth, Denis - BA, PhD
 Tavakoli-Targhi, Mohamad - BA, MA, PhD
 Terpstra, Nicholas - BA, MA, PhD
 Tran, Nhung - MA, PhD
 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

Members Emeriti

Accinelli, Robert - BA, MA, PhD
 Berger, Carl - BA, MA, PhD
 Berman, William - BA, MA, PhD
 Callahan, William - AB, MA, PhD
 Davis, Natalie - BA, MA, PhD
 Dent, Julian - BA, MA, PhD
 Dowler, E. Wayne - BA, AM, PhD
 Dyck, Harvey - BA, MA, PhD
 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
 Murray, Alexander - BA, PhD
 Nelson, Wendy - BS, MHSc
 Raby, David - BA, PhD
 Robertson, Ian - BA, MA, PhD
 Robson, Ann - BA, MA, PhD
 Wagle, Narendra - BA, MA, PhD

Associate Members

Dacome, Lucia - BA, MPH, PhD
 Ewing, Cindy - PhD
 Mishler, Max - PhD
 Sweeney, Shauna - PhD
 Walker, Tamara - PhD

History: History MA

Master of Arts

Program Description

The Department of History offers a broadly diversified program of graduate studies leading to the Master of Arts degree. 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 requirements vary for the field in Contemporary International History; see the admission and program requirements below.

The MA program can be taken on a full-time or part-time basis.

MA Program

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.
 - 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 [Application Information Form](#)
 - three letters of recommendation
 - a 500-word specific research proposal outlining a precise field and area of historical investigation
 - 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 may complete the MA by:
 - coursework and research paper or
 - coursework and thesis (with special permission).
- Students must achieve at least an overall B average in their courses to maintain standing.
- Students must also demonstrate competency in a language other than English, to be assessed in a manner approved by the Associate Chair (Graduate) or designate.

Coursework and Research Paper

- 3.5 full-course equivalents (FCEs) as follows:
 - 0.5 FCE must be either HIS 1997H or HIS 1201H taken following consultation with Graduate Coordinator
 - HIS 2000Y⁰ MA essay (1.0 FCE)
 - 2.0 FCE HIS courses. 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 as follows:
 - 0.5 FCE must be either HIS 1997H or HIS 1201H taken following consultation with Graduate Coordinator
 - present an MA thesis (1.5 FCE)
- The thesis MA might take longer than the coursework MA. The thesis must be presented by full-time students within three years of entering the program; part-time students must present within six years of entering the program.

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

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

Field: Contemporary International History

The field in Contemporary International History (CIH) focuses on the historical roots and genealogies of contemporary international issues. It emphasizes the development of research and analytical skills that will enrich decision-making in an increasingly interconnected, but tension-filled global environment. The field is designed to prepare students in research, analytical, and communication skills for decision-making in non-academic careers in government, international organizations, NGOs, media, business and finance, law, and the cultural sector.

The coursework-plus-thesis option is not permitted in this field.

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.
- An appropriate bachelor's degree, or equivalent, from a recognized university with successful completion of at least 6.0 full-course equivalents (FCEs) in History with a B+ average.
- A B+ average (grade point average of 3.3), or equivalent, in the final 5.0 FCEs of the BA.
- In addition to the School of Graduate Studies online application form, applicants must submit:
 - an [Application Information Form](#)
 - three letters of recommendation
 - a 500-word specific research proposal outlining a precise field and area of historical investigation
 - 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

- **Coursework.** Students must successfully complete **2.5 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: HIS 1997H
 - 0.5 required FCE: HIS 1900H or HIS 1901H
 - the remaining 1.5 FCE can be taken within or outside the History department.
- HIS 2000Y⁰, a research project defined in consultation with a supervisor and approved by the CIH Coordinator.
- Students must achieve at least an overall B average in their courses to maintain standing.

- Students must also demonstrate competency in a language other than English, to be assessed in a manner approved by the Associate Chair (Graduate) or designate.

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

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

History: History PhD

Doctor of Philosophy

Program Description

The Department of History offers a broadly diversified program of graduate studies leading to the Doctor of Philosophy degree. There are opportunities to study and research several geographic, chronological, and thematic areas of history. Visit the departmental website for [descriptions of specific fields](#).

Applicants may enter the PhD program via one of two routes:

- 1) following completion of an appropriate MA degree or
- 2) direct entry following completion of an appropriate bachelors' degree.

PhD Program

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.
- Normally, applicants may enter the PhD program with an **MA degree** in history or its equivalent 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
 - 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 a recognized [English-](#)

[language proficiency examination](#) as outlined in the School of Graduate Studies General Regulations.

Program Requirements

- Coursework.** With **MA degree in history:** 2.0 full-course equivalents (FCEs) with a B+ average throughout coursework.
- Residence requirement.** Residence means 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. PhD students must maintain geographical proximity to the campus until they have passed their field examinations but no longer than a period of two years.
- Comprehensive examinations.** At the beginning of their programs, students consult with their supervisor and the Associate Chair, Graduate to determine their fields. Two options are available: two majors **or** one major and two minors. Major fields should coincide with the subject area(s) that the student has chosen for the thesis. 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 fields. Students are required to take their field examinations by the spring of Year 2, 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 Year 2 without permission of the Associate Chair, Graduate. The department's website lists the [fields offered](#).
- Language requirements** vary with the students major area of study. If not already so qualified, a student must qualify in one language other than English by the beginning of Year 2 and may be asked to qualify in other program-related languages. All language requirements are subject to the approval of 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Exceptional applicants may enter the PhD program by direct entry 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
 - 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 a recognized [English-language proficiency examination](#) as outlined in the School of Graduate Studies General Regulations.

Program Requirements

- **Coursework.** By **direct entry**: 4.5 full-course equivalents (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.** Residence means 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. PhD students must maintain geographical proximity to the campus until they have passed their field examinations but no longer than a period of two years.
- **Comprehensive examinations.** At the beginning of their programs, students consult with the Associate Chair, Graduate to determine their fields, and students will be assigned advisors. Two options are available: two majors or one major and two minors. Major fields should coincide with the subject area(s) that the student has chosen for the thesis. 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 fields. Students are required to take their field examinations by the spring of Year 2, 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 Year 2 without permission of the Associate Chair, Graduate. The department's website lists the [fields offered](#).
- **Language requirements** vary with the students major area of study. If not already so qualified, a student must qualify in one language other than English by the beginning of Year 2 and may be asked to qualify in other program-related languages. All language requirements are subject to the approval of 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 seven years of first enrolment in the direct-entry PhD.

Program Length

5 years

Time Limit

7 years

History: History MA, PhD Courses

Not all courses are offered every year. Please consult the department's list of current course offerings.

HIS 1001H	Topics in History
HIS 1003H	Theory and History
HIS 1004H	History and Biopolitics
HIS 1007H	Theories, Histories, Imaginaries: Themes in Technoscience
HIS 1008H	The Practice of Public History and Archival Research
HIS 1009H	Empire and Governmentality: Economy, Culture, and Liberal Governance
HIS 1010H	New Historiographies of Capitalism: Globality and Making Space, Time, Subjects
HIS 1011H	Queer and Trans Oral History
HIS 1015H	Oral History Theory and Practice
HIS 1016H	Historical Readings in Gender and Sexuality
HIS 1020H	Cultural Theory/Cultural History
HIS 1023H	Translation, Time, History
HIS 1031H	Images as History: Photography, Historical Method, and Conceptualizing Visuality
HIS 1032H	Modernity and Its Visual Cultures
HIS 1040H	Maps in History: Power and Identity, Conflict and Imagination
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 1113H	Politics and Society in North American History
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 1180H	Race in the USA and Canada
HIS 1200H	Readings in European Intellectual History
HIS 1201H	The Materials of Medieval History (Credit/No Credit)
HIS 1203H	Jus Commune
HIS 1204H	Topics in Medieval Church History
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 1230H	The Sexes in the Western World, 1450–1650
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	Histories in the Mediterranean: From Braudel to Post-Colonialism
HIS 1236H	French Colonial History: 1830–1962
HIS 1237H	France: 1870–1968
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 1272H	Topics in Twentieth-Century European History
HIS 1275H	Imperial Germany, 1871–1918
HIS 1276H	Nations and Nationalism in Global Perspective
HIS 1278H	Topics in 20th C German History
HIS 1279H	World War II in East Central Europe (joint graduate/undergraduate)
HIS 1281H	History of Real Socialism
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 1288H	Russia's Empire
HIS 1289H	The Cold War Through Its Archives
HIS 1289Y	Twentieth Century Ukraine
HIS 1290H	Topics in Imperial Russian History
HIS 1293Y	Kievan Rus' (joint graduate/undergraduate)
HIS 1296H	Stalinism and After: Beyond Cold War History
HIS 1301H	History of Food and Drink
HIS 1416H	Early Modern English Popular Culture, 1500–1800
HIS 1435H	Studies in Victorian Society
HIS 1440H	Irish Nationalism in Canada, 1858–1870 (joint graduate/undergraduate)
HIS 1511H	History and Present-Day Policy Analysis
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 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 1615H	Research Methods in Japanese Historical and Cultural Studies
HIS 1620H	Asian Diasporas
HIS 1662H	Rethinking Modernity Through Japan
HIS 1664H	Religion and Society in Southeast Asia
HIS 1667H	Transnational Gender Histories

HIS 1673H	Critical Historiography of Late Imperial and Modern China
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 1702H	Colonial Violence: Comparative Histories
HIS 1704H	Colloquium in Latin American and Caribbean History
HIS 1705H	Trends in Women and Gender History in the Global South
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 1712H	Topics on the History of Ethiopia
HIS 1725H	Topics in Latin American History: Race, Gender, and Citizenship
HIS 1784H	The Islamic Revolution
HIS 1785H	International Relations in the Middle East
HIS 1800H	Global Histories of the Archives
HIS 1802H	Slavery in North America (joint undergraduate/graduate)
HIS 1805H	Human Rights and Empire (exclusion: HIS 1860H)
HIS 1806H	Histories of the Carceral State
HIS 1810H	Indigenous Economies and Imperialism
HIS 1820H	Law, Space, and History
HIS 1825H	Changing Skylines: (Re)mapping Urban History in the Global Age
HIS 1830H	Critical Approaches to Historical Anthropology
HIS 1840H	Empires in World War II
HIS 1850H	Queer Archives and LGBTQ History
HIS 1860H	Global Rights: A Critical History
HIS 1870H	History on Film/Film on History
HIS 1880H	Digital History
HIS 1890H	Regimes of Value
HIS 1900H	History in International Affairs
HIS 1901H	Approaches and Methodologies in Contemporary International History
HIS 1997H	The Practice of History (Credit/No Credit)
HIS 1998H	Reading Course
HIS 1999H	Reading Course
HIS 2000Y ⁰	Directed Research
JHL 1282H	Comparative Totalitarian Culture
JHL 1680H	Revolutionary Women's Cultures in East Asia, Early to Mid 20th Century
JHP 1289Y	Twentieth-Century Ukraine (joint graduate/undergraduate)
JHP 2351Y	The People From Nowhere

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 3205H	Violence in Medieval Society (joint graduate/undergraduate)
MST 3225Y	Jews and Christians in Medieval and Renaissance Europe (joint graduate/undergraduate)
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.

History and Philosophy of Science and Technology

HPST: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

History and Philosophy of Science and Technology

MA and PhD

- Fields:
 - History of Mathematics and Physical Sciences;
 - History of Medicine and Life Sciences;
 - History of Technology;
 - Philosophy of Science

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - History and Philosophy of Science and Technology, MA, PhD
- [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) 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 are encouraged to participate in the IHPST colloquia, which are open to the University of Toronto community.

Contact and Address

Web: 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

HPST: Graduate Faculty

Full Members

Baigrie, Brian - BA, MA, PhD
 Berkovitz, Joseph - BSc, MA, PhD
 Brown, James - BA, MA, PhD, FRSC
 Chakravartty, Anjan - BSc, MPH, MA, PhD
 Dacome, Lucia - BA, MPH, PhD
 Fehige, Yiftach - BSc, MTh, MPH, PhD, DTh
 Fraser, Craig - BA, MA, PhD
 Gingras, Yves - BSc, MSc, PhD
 Huber, Franz - MA, PhD
 Jones-Imhotep, Edward - BA, PhD (**Director**)
 Katzav, Joel - BSc, MA, PhD
 Kremontsov, Nikolai - PhD
 Lightman, Bernard - BA, MA, PhD
 Penfold, Steve - MA, PhD
 Seager, William Edward - BA, MA, PhD
 Shorter, Edward - BA, MA, PhD
 Smith, Brian Cantwell - BS, MS, PhD
 Snobelen, Stephen - BA, MA, MPH, PhD
 Solovey, Mark - BA, MA, AM, PhD
 Upshur, Ross Edward - BA, MA, MSc, MD
 Vicedo Castello, Marga - BA, MA, PhD, PhD
 Walsh, Denis - BA, BSc, MPH, PhD, PhD
 Yeang, Chen-Pang - BS, SM, PhD, ScD

Members Emeriti

De Sousa, Ronald - BA, PhD, FRSC
 Goldstick, Daniel - BA, BPhil, DPhil
 Thompson, Paul - BA, MA, PhD

Associate Members

Sung, Wen-Ching - BA, MA, MS, MS, MS, PhD, PhD

HPST: History and Philosophy of Science and Technology MA

Master of Arts

Program Description

Admission to the MA 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. The [IHPST website](#) contains detailed instructions for completing admission applications. Applications must be accompanied by transcripts, a statement of interest, letters of reference, a curriculum vitae, and a writing sample.

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.

The MA program can be taken 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 IHPST's additional admission requirements stated below.
- A 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 of no more than 3,000 words (not to exceed 20 pages) is required.
- Application deadline is January 15 of every year.
- 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

- **Coursework.** Students must complete a minimum of **3.0 full-course equivalents (FCEs)**. A student's curriculum is arranged in consultation 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* (0.5 FCE) in the first session
 - complete 1.0 FCE from the HPS 2000 series
 - complete 0.5 FCE from the HPS 3000 series
 - complete elective courses (1.0 FCE)
 - 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* (0.5 FCE) in the first session
 - complete 0.5 FCE from the HPS 2000 series
 - complete 1.0 FCE from the HPS 3000 series
 - complete elective courses (1.0 FCE)
 - 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.

- Students in either field who wish to pursue independent research may take HPS 1500H *Research Paper* (0.5 FCE), in which they carry out a self-initiated research project under the direction of a faculty advisor.

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

HPST: History and Philosophy of Science and Technology PhD

Doctor of Philosophy

Program Description

Admission to the PhD program 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. The [IHPST website](#) contains detailed instructions for completing admission applications. Applications must be accompanied by transcripts, a statement of interest, letters of reference, a curriculum vitae, and a writing sample. The application deadline is January 15 of every year.

Applicants must be admitted via one of the following routes: 1) following completion of a master's degree in History and Philosophy of Science and Technology or 2) direct entry following completion of an appropriate bachelor's degree. With the approval of the Director of Graduate Studies, some applicants may be admitted to a flexible-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.

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.

PhD Program

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.

- 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 of no more than 3,000 (not to exceed 20 pages) words is required.
- 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 or
 - Internet-based TOEFL: 93/120 and 22/30 on the writing and speaking sections.

Program Requirements

- Students admitted on the basis of a **master's degree** must:
 - Complete **3.0 full-course equivalents (FCEs)**; a student whose MA degree does not exhibit sufficient breadth is required to take additional courses.
 - 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). 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 advanced research paper (required for HPS 1100Y+) by end of Year 1 for students who enter with a master'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+ *Advanced 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.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Direct-Entry)

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 a B+ in the applicant's overall program and of at least an A– in the applicant's final two years of study.
- 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.
- 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

- 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.
 - 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).

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 advanced research paper (required for HPS 1100Y*), by end of Year 2.
- 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* *Advanced 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.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Flexible-Time)

Minimum Admission Requirements

- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option.
- 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.
- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also

satisfy IHPST's additional admission requirements stated below.

- 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.
- 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 or
 - Internet-based TOEFL: 93/120 and 22/30 on the writing and speaking sections.

Program Requirements

- Program requirements for the flexible-time option are identical to those 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.
- Students admitted on the basis of a **master's degree** must:
 - Complete **3.0 full-course equivalents (FCEs)**; a student whose MA degree does not exhibit sufficient breadth is required to take additional courses.
 - 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). 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 advanced research paper (required for HPS 1100Y*), by the end of Year 1.

- 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+ *Advanced 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.

Program Length

6 years

Time Limit

8 years

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

HPST: History and Philosophy of Science and Technology MA, PhD Courses

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 1100Y+	Advanced Research Paper (required for all students)
HPS 1500H	Research Paper
HPS 2000H	History of Mathematics

HPS 2001H	History of Physics
HPS 2003H	History of Biology
HPS 2004H	History of Medicine
HPS 2006H	History of Technology II
HPS 2007H	History of Astronomy
HPS 2008H	History of Psychology
HPS 2009H	History and Philosophy of the Social Sciences
HPS 2010H	The Sciences of Human Nature
HPS 3000H	Philosophy of Science
HPS 3001H	The Philosophy of Biology
HPS 3002H	The History and Philosophy of Science
HPS 3003H	Social Studies of Medicine
HPS 3004H	Philosophy of Medicine
HPS 3006H	Philosophy of Probability
HPS 3007H	Philosophy of Economics
HPS 3008H	Philosophy of Science and Religion
HPS 3009H	Slavery, Medicine, and Science in Historical Perspective
HPS 3010H	Social Epistemology
HPS 4001H	The Scientific Revolution: Galileo to Newton
HPS 4007H	Body, Medicine, and Society in Early Modern Europe
HPS 4017H	The Rise of Eugenics: A Comparative History
HPS 4022H	Theory of Scientific Change
HPS 4101H	Topics in the History of Physics
HPS 4102H	Topics in the History of Technology
HPS 4105H	Topics in the History of the Social and Behavioural Sciences
HPS 4106H	Technology, Environment, and History
HPS 4300H	The Historian's Craft: Sources, Methods, and Approaches
HPS 4500H	Religion and Science on Human Sexuality
HPS 4502H	Teleology, Adaptation, and Design
HPS 4505H	Complexity, Reduction, and Emergence in Contemporary Biology
HPS 4512H	Thought Experiments
HPS 4601H	Topics in Philosophy of Science

+ *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

Immunology

Immunology: Introduction

Faculty Affiliation

Medicine

Degree Programs

Immunology

MSc

- Fields:
 - Applied Immunology;
 - Fundamental Immunology

PhD

- Field:
 - Fundamental Immunology

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Developmental Biology](#)
 - Immunology, MSc, PhD
- [Human Development](#) (admissions have been suspended)
 - Immunology, PhD
- [Resuscitation Sciences](#)
 - Immunology, MSc, PhD
- [Sexual Diversity Studies](#)
 - Immunology, PhD
- [Women's Health](#)
 - Immunology, MSc, PhD

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.

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 7205, 1 King's College Circle
 Toronto, Ontario M5S 1A8
 Canada

Immunology: Graduate Faculty

Full Members

Anderson, Michele - BS, PhD
 Berger, Stuart - BSc, MSc, PhD
 Berinstein, Neil - MD
 Crome, Sarah - PhD
 Cybulsky, Myron - MD
 Danska, Jayne - AB, PhD
 de Perrot, Marc - MSc, MD
 Dunn, Shannon - BSc, MSc, PhD
 Ehrhardt, Goetz - MS, PhD
 Fish, Eleanor - BSc, MPH, PhD
 Gehring, Adam - BA, PhD
 Gommerman, Jennifer - BSc, PhD (**Associate Chair, Graduate Studies**)
 Gorczynski, Reginald - BSc, BA, MA, MD, PhD
 Guidos, Cynthia - BSc, PhD
 Hirano, Naoto - MD, PhD
 Inman, Robert - BA, MD
 Iscove, Norman - MD, PhD
 Jeschke, Marc - DrMed, PhD
 Julius, Michael - BSc, PhD
 Kaul, Rupert - MD, PhD
 Levy, Gary - BSc, MD
 MacParland, Sonya - BS, MS, PhD
 Mak, Tak - BSc, MSc, PhD
 Mallevaey, Thierry - MSc, PhD
 Martin, Alberto - BSc, MSc, PhD
 Ohashi, Pam - BSc, PhD
 Paige, Christopher - BSc, PhD
 Philpott, Dana - BS, PhD
 Poussier, Philippe - MD
 Ratcliffe, Michael - PhD
 Robbins, Clinton Shane - BS, PhD
 Roifman, Chaim - MD
 Rottapel, Robert - BA, MD
 Sacher, Adrian - DrMed
 Siminovitch, Katherine - MD
 Spaner, David - PhD
 Tsui, Florence - BSc, MSc, PhD
 Wall, Donna - MD
 Watts, Tania - BSc, PhD
 Williams, David - BSc, MSc, PhD
 Winer, Daniel - BS, MD
 Wither, Joan - MD, PhD
 Yeung, Rae - DrMed, MD
 Zhang, Li - MSc, MD, PhD
 Zúñiga-Pflücker, Juan Carlos - BSc, PhD (**Chair and Graduate Chair**)

Members Emeriti

Letarte, Michelle - BSc, PhD

Painter, Robert - BSc, PhD
 Shulman, Marc - AB, PhD
 Wu, Gillian - BSc, MSc, PhD

Associate Members

Harding, Shane - PhD
 Jongstra-Bilen, Jenny - BSc, MSc, PhD
 Julien, Jean-Philippe - PhD
 Lee, Nana Hyung-Ran - PhD
 Singh, Jastaran - BSc, PhD

Immunology: Immunology MSc Field: Applied Immunology

Master of Science

Program Description

The MSc program is offered in two fields:

- The **non-thesis Applied Immunology** field provides advanced training in designing, implementing, and evaluating immunological techniques that measure immune responses.
- The thesis-based Fundamental Immunology field provides advanced training in an area of specialization, with a particular emphasis on the acquisition of experience in the strategies and experimental methods of modern, original, scientific research.

Students in the Applied Immunology field (including the advanced-standing option) are not eligible to participate in collaborative specializations.

Field: Applied 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.
- 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 immunology or biological or natural sciences may be advised to do extra coursework necessary for their research.
- 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. See [General Regulations section 4.3](#) for requirements. Applicants educated outside Canada are required to provide Graduate Record Examination (GRE) (general) scores with their application.
- Before starting the program, applicants may be required to complete SCS 3128 (at the discretion of the Department of Immunology).
- Please note that the Applied Immunology field is unable to accept international students at this time.

Program Requirements

- Students must complete any courses conditional of acceptance.
- Coursework.** Students must successfully complete a total of **7.0 full-course equivalents (FCEs)** as follows:
 - Year 1:
 - 2.0 FCEs: IMM 1450Y, IMM 1550Y
 - 1.0 FCE selected from IMM 1428H, IMM 1429H, IMM 1430H, or IMM 1431H
 - 0.5 FCE: IMM 1436H
 - Year 2:
 - 1.0 FCE: IMM 1050H⁰, IMM 1075H⁰
 - 1.0 FCE: IMM 1650Y
 - 0.5 FCE: IMM 1651H
 - 1.0 FCE selected from the elective course list below.
- Students are required to participate full-time until the program requirements of research and coursework have been completed.

Required Courses

IMM 1050H0	Easton Seminar Series (I) (Credit/No Credit)
IMM 1075H0	Special Topics in Immunology (I) (Credit/No Credit)
IMM 1428H	Molecular Immunology
IMM 1429H	Developmental Immunology
IMM 1430H	Clinical Immunology
IMM 1431H	Immunotherapy
IMM 1436H	Techniques in Immunology
IMM 1450Y	Major Research Project in Immunology (I)
IMM 1550Y	Major Research Project in Immunology (II)
IMM 1650Y	Major Research Project in Immunology (III)
IMM 1651H	Applied Research in Immunology (Credit/No Credit)

⁰ Course that may continue over a program. Credit is given when the course is completed.

Elective Courses

Not all courses are offered every year. Please consult the department for details. With the permission of the Associate Chair, Graduate Studies, students may also take graduate courses which are not found in the list below, in a subject relevant to their research project.

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 1435H	Practical Immunology
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
MSC 1090H	Introduction to Computational BioStatistics with R

MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

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)

Minimum Admission Requirements

- Applicants with an Immunology specialist or major undergraduate degree from the University of Toronto, or equivalent, may be eligible for advanced standing.
- 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 immunology or biological or natural sciences may be advised to do extra coursework necessary for their research.
- 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. See [General Regulations section 4.3](#) for requirements. Applicants educated outside Canada are required to provide Graduate Record Examination (GRE) (general) scores with their application.
- Applicants must have completed the following University of Toronto undergraduate courses: IMM 450Y, and two of IMM 428H, IMM 429H, or IMM 430H, IMM 1431H, or their equivalents.
- Applicants must already have a research supervisor who is a graduate faculty member in the Department of Immunology.
- Please note that the Applied Immunology field (advanced-standing option) is unable to accept international students at this time.

Program Requirements

- **Coursework.** Successful completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: IMM 1550Y, completed in the first Summer session
 - 1.0 FCE: IMM 1650Y

- 2.0 FCEs: IMM 1050H⁰, IMM 1436H, IMM 1651H, IMM 1075H⁰
- 1.0 FCE selected from the elective course list below.

Required Courses

IMM 1050H ⁰	Easton Seminar Series (I) (Credit/No Credit)
IMM 1075H ⁰	Special Topics in Immunology (I) (Credit/No Credit)
IMM 1436H	Techniques in Immunology
IMM 1550Y	Major Research Project in Immunology (II)
IMM 1650Y	Major Research Project in Immunology (III)
IMM 1651H	Applied Research in Immunology (Credit/No Credit)

⁰ Course that may continue over a program. Credit is given when course is completed.

Elective Courses

Not all courses are offered every year. Please consult the department for details. With the permission of the Associate Chair, Graduate Studies, students may also take graduate courses which are not found in the list below, in a subject relevant to their research project.

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 1435H	Practical Immunology
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
MSC 1090H	Introduction to Computational BioStatistics with R
MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

Program Length

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

Time Limit

3 years full-time

Immunology: Immunology MSc Field: Fundamental Immunology

Master of Science

Program Description

The MSc program is offered in two fields:

- The non-thesis Applied Immunology field provides advanced training in designing, implementing, and evaluating immunological techniques that measure immune responses.
- The **thesis-based Fundamental Immunology** field provides advanced training in an area of specialization, with a particular emphasis on the acquisition of experience in the strategies and experimental methods of modern, original, scientific research.

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.
- 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 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. See [General Regulations section 4.3](#) for requirements. Applicants educated outside Canada are required to provide Graduate Record Examination (GRE) (general) scores with their application.

Program Requirements

- Coursework.** Successful completion of **3.0 full-course equivalents (FCEs)**:
 - IMM 1000Y *Recent Advances in Immunology* (1.0 FCE)
 - IMM 1200H+ *Scientific Skills for Immunologists* (0.5 FCE)
 - IMM 1025H⁰ *Student Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1050H⁰ *Easton Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1075H⁰ *Special Topics in Immunology (I)* (Credit/No Credit; 0.5 FCE).
- A satisfactory **thesis** embodying the student's research.
- Upon of completion of the thesis, pass an **oral examination**.

Program Length

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

Time Limit

3 years full-time

Required Courses

IMM 1000Y	Recent Advances in Immunology
IMM 1025H ⁰	Student Seminar Series (I) (Credit/No Credit)
IMM 1050H ⁰	Easton Seminar Series (I) (Credit/No Credit)
IMM 1075H ⁰	Special Topics in Immunology (I) (Credit/No Credit)
IMM 1200H ⁺	Scientific Skills for Immunologists

⁰ Course that may continue over a program. Credit is given when course is completed.

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

Elective Courses

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 1436H	Techniques in Immunology
IMM 2200H ⁺	Graduate Professional Development (GPD) 2.0
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
MMG 1012H ⁰	Topics in Molecular Genetics I
MSC 1090H	Introduction to Computational BioStatistics with R
MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

⁺ 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.

Immunology: Immunology PhD

Doctor of Philosophy

Program Description

The PhD degree is an advanced research degree intended to reflect a level of training consistent with the ability of the candidate to function as an independent research scientist.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the MSc in Immunology program, Fundamental Immunology field; or 3) direct entry following completion of a BSc degree.

Field: Fundamental Immunology

PhD Program

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.
- 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. See [General Regulations section 4.3](#) for requirements. Applicants educated outside Canada are required to provide Graduate Record Examination (GRE) (general) scores with their application.
- Applicants who have completed an MSc degree must have at least a B+ average in that degree.
- Applicants may be accepted for direct entry with a BSc degree, with at least an A– average in the final two years.

Program Requirements

- Coursework.** Students must successfully complete a total of **4.0 full-course equivalents (FCEs)** as follows:
 - IMM 1000Y *Recent Advances in Immunology* (1.0 FCE)
 - IMM 1200H+ *Scientific Skills for Immunologists* (0.5 FCE); in the event the student has taken this course to complete the MSc in Immunology, Fundamental Immunology field, a substitute course will be taken with approval of the Graduate Coordinator
 - IMM 2025H⁰ *Student Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2050H⁰ *Easton Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2075H⁰ *Special Topics in Immunology (II)* (Credit/No Credit; 0.5 FCE)
 - 1.0 elective FCE at the graduate level from either Immunology or outside the department as relevant to their thesis topic (examples are provided in the elective course list).
- Students must complete a **qualifying exam** (DEX 5555Y, Credit/No Credit; 0.0 FCE) within 16 months of starting the PhD program.

- Candidates must submit a **thesis** and defend it at a **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.
- Students are required to participate full-time until the program requirements of research and coursework have been completed.

Required Courses

IMM 1000Y	Recent Advances in Immunology
IMM 1200H ⁺	Scientific Skills for Immunologists
IMM 2025H ⁰	Student Seminar Series (II) (Credit/No Credit)
IMM 2050H ⁰	Easton Seminar Series (II) (Credit/No Credit)
IMM 2075H ⁰	Special Topics in Immunology (II) (Credit/No Credit)
DEX 5555Y	Departmental Examination (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. Credit is given when the course is completed, or the course is graded when completed.*

Elective Courses

Not all courses are offered every year. Please consult the department for details. With the permission of the Associate Chair, Graduate Studies, students may also take graduate courses which are not found in the list below, in a subject relevant to their research project.

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 1436H	Techniques in Immunology
IMM 2400H	Translational Immunology
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
LMP 1016H	Concepts in Inflammatory/Autoimmune Arthritis
MMG 1012H ⁰	Topics in Molecular Genetics I
MSC 1090H	Introduction to Computational BioStatistics with R
MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

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

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Transfer applicants must be enrolled in the MSc Immunology program, Fundamental Immunology field.
- Applicants must pass a reclassification (transfer) exam within 16 to 20 months of initial registration in the MSc Immunology program, Fundamental Immunology field.
- Successful completion of IMM 1200H⁺ and IMM 1000Y with at least a B+ overall average, prior to writing the reclassification exam (DEX 5555Y).
- Completion of, or concurrent registration in, IMM 1025H⁰, IMM 1050H⁰, and IMM 1075H⁰.

Program Requirements

- **Coursework.** Students must successfully complete a total of **5.5 full-course equivalents (FCEs)** as follows:
 - IMM 1000Y *Recent Advances in Immunology* (1.0 FCE)
 - IMM 1200H⁺ *Scientific Skills for Immunologists* (0.5 FCE)
 - IMM 1025H⁰ *Student Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1050H⁰ *Easton Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1075H⁰ *Special Topics in Immunology I* (Credit/No Credit; 0.5 FCE)
 - IMM 2025H⁰ *Student Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2050H⁰ *Easton Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2075H⁰ *Special Topics in Immunology (II)* (Credit/No Credit; 0.5 FCE)
 - 1.0 elective FCE at the graduate level from either Immunology or outside the department as relevant to their thesis topic (examples are provided in the elective course list).
- Students must successfully complete the **transfer exam** (DEX 5555Y, Credit/No Credit; 0.0 FCE) within 16 to 20 months of starting the MSc Immunology program, Fundamental Immunology field.
- Candidates must submit a **thesis** and defend it at a **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.
- Students are required to participate full-time until the program requirements of research and coursework have been completed.

Required Courses

IMM 1000Y	Recent Advances in Immunology
IMM 1200H ⁺	Scientific Skills for Immunologists

IMM 1025H ⁰	Student Seminar Series (I) (Credit/No Credit)
IMM 1050H ⁰	Easton Seminar Series (I) (Credit/No Credit)
IMM 1075H ⁰	Special Topics in Immunology (I) (Credit/No Credit)
IMM 2025H ⁰	Student Seminar Series (II) (Credit/No Credit)
IMM 2050H ⁰	Easton Seminar Series (II) (Credit/No Credit)
IMM 2075H ⁰	Special Topics in Immunology (II) (Credit/No Credit)
DEX 5555Y	Departmental Examination (transfer/qualifying exam); (Credit/No Credit; prerequisite: IMM 1000Y)

* *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. Credit is given when the course is completed, or the course is graded when completed.*

Elective Courses

Not all courses are offered every year. Please consult the department for details. With the permission of the Associate Chair, Graduate Studies, students may also take graduate courses which are not found in the list below, in a subject relevant to their research project.

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 2400H	Translational Immunology
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
LMP 1016H	Concepts in Inflammatory/Autoimmune Arthritis
MMG 1012H ⁰	Topics in Molecular Genetics I
MSC 1090H	Introduction to Computational BioStatistics with R
MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

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

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

Direct entry is available for highly qualified BSc graduates who completed the undergraduate Immunology 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.

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.

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. See [General Regulations section 4.3](#) for requirements. Applicants educated outside Canada are required to provide Graduate Record Examination (GRE) (general) scores with their application.

Applicants are selected by the departmental admissions committee on the basis of academic and research excellence. Admission to the program is finalized when a graduate faculty member agrees to supervise the student's research and guarantees a full stipend for the student.

Program Requirements

- **Coursework.** Students must successfully complete a total of **5.5 full-course equivalents (FCEs)** as follows:
 - IMM 1000Y *Recent Advances in Immunology* (1.0 FCE)
 - IMM 1200H+ *Scientific Skills for Immunologists* (0.5 FCE)
 - IMM 1025H⁰ *Student Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1050H⁰ *Easton Seminar Series (I)* (Credit/No Credit; 0.5 FCE)
 - IMM 1075H⁰ *Special Topics in Immunology I* (Credit/No Credit; 0.5 FCE)
 - IMM 2025H⁰ *Student Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2050H⁰ *Easton Seminar Series (II)* (Credit/No Credit; 0.5 FCE)
 - IMM 2075H⁰ *Special Topics in Immunology (II)* (Credit/No Credit; 0.5 FCE)
 - 1.0 elective FCE at the graduate level from either Immunology or outside the department as relevant to their thesis topic (examples are provided in the elective course list).
- Candidates must submit a **thesis** and defend it at a **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.
- Students are required to participate full-time until the program requirements of research and coursework have been completed.

Required Courses

IMM 1000Y	Recent Advances in Immunology
IMM 1200H+	Scientific Skills for Immunologists
IMM 1025H ⁰	Student Seminar Series (I) (Credit/No Credit)
IMM 1050H ⁰	Easton Seminar Series (I) (Credit/No Credit)
IMM 1075H ⁰	Special Topics in Immunology (I) (Credit/No Credit)
IMM 2025H ⁰	Student Seminar Series (II) (Credit/No Credit)
IMM 2050H ⁰	Easton Seminar Series (II) (Credit/No Credit)
IMM 2075H ⁰	Special Topics in Immunology (II) (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. Credit is given when the course is completed, or the course is graded when completed.*

Elective Courses

Not all courses are offered every year. Please consult the department for details. With the permission of the Associate Chair, Graduate Studies, students may also take graduate courses which are not found in the list below, in a subject relevant to their research project.

BTC 1850H	Creating Life Science Products
BTC 1860H	Generation of Advanced Medicine: Biologics in Therapy (GAMBiT)
CSB 1018H	Advanced Microscopy and Imaging
CSB 1472H	Computational Genomics and Bioinformatics
IMM 1436H	Techniques in Immunology
IMM 2200H	Graduate Professional Development (GPD) 2.0
JBZ 1472H	Computational Genomics and Bioinformatics
JDB 1025H	Developmental Biology
JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
MMG 1012H ⁰	Topics in Molecular Genetics I
MSC 1090H	Introduction to Computational BioStatistics with R
MSC 7000Y	Regenerative Medicine
PHM 1122H	Fundamentals of Drug Discovery
PSL 1014H	Advanced Topics: The Gastrointestinal Epithelium

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

Program Length

5 years

Time Limit

7 years

Industrial Relations and Human Resources

IRHR: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Industrial Relations and Human Resources

MIRHR

PhD

- Field:
 - Canadian Industrial Relations and Human Resources

Collaborative Specializations

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

- [Ethnic and Pluralism Studies](#)
 - Industrial Relations and Human Resources, MIRHR, PhD
- [Workplace Learning and Social Change](#)
 - Industrial Relations and Human Resources, MIRHR, PhD

Overview

In addition to faculty directly appointed to the Centre for Industrial Relations and Human Resources (CIRHR), the centre brings together professors from many different disciplines and departments at the University of Toronto to teach and conduct research on all aspects of the workplace and employment relationships. The CIRHR faculty reflect the depth, breadth, and diversity of our university.

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

IRHR: Graduate Faculty

Full Members

Campolieti, Michele - BSc, MA, PhD
 Dhuey, Elizabeth Ann - BA, MEd, PhD
 Gomez, Rafael - BA, MA, MIR, PhD (**Director**)
 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
 Pohler, Dionne - BComm, PhD (**Acting Director**)
 Reitz, Jeffrey - PhD
 Rotundo, Maria - BA, MA, PhD
 Saks, Alan - BA, MSc, PhD
 Verma, Anil - BTech, MBA, PhD

Members Emeriti

Gunderson, Morley - BA, MA, PhD
 Reid, Frank - BA, MSc, PhD (**Coordinator of Graduate Studies**)

Associate Members

Campero Molina, Santiago - MBA, PhD
 Distelhorst, Gregory Michael - BA, PhD
 Heathcote, Joanna - BA, MA, PhD
 Rittich, Kerry - BAMus, LLB, SJD
 Riznek, Lori - BA, MA, DA
 Sawchuk, Peter - BSc, BEd, PhD
 Scanlan, Padraic - PhD, PhD

IRHR: Industrial Relations and Human Resources MIRHR

Master of Industrial Relations and Human Resources

Program Description

The Master of Industrial Relations and Human Resources (MIRHR) degree program benefits 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 is a professional degree program designed to train students in the latest innovations and best practices within industrial relations and human resources management. The program uses an interdisciplinary approach to provide specialized study of the employment relationship.

The MIRHR offers two program options:

- The Two-Year MIRHR option allows qualified students to complete the degree program in two years (16 non-consecutive months) of full-time study.
- The advanced-standing MIRHR option enables qualified students to complete the MIRHR in one year (12 consecutive months) of full-time study.

Both options may be taken on a part-time basis.

MIRHR Program (Two-Year)

Minimum Admission Requirements

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

Year 1: Foundation Courses

- Year 1 is spent acquiring a foundation in industrial relations and human resources and includes courses in economics, human resources management, law, quantitative methods,

and organizational behaviour. Courses marked (PR) require prerequisites; further information may be obtained from CIRHR.

- 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 Foundations of Industrial Relations and Human Resources*
 - IRE 1126H *Economics of Labour and Human Resources (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 non-credit course designed for 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 (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.

Program Length

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

Time Limit

3 years full-time; 6 years part-time

MIRHR Program (Advanced-Standing Option: 12-Month)

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 12-month MIRHR advanced-standing option require an appropriate bachelor's degree from a recognized university and significant academic training (normally 3.0 full-course equivalents [FCEs] at the senior undergraduate level), employment relations, human resources, 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 CIRHR admissions committee reserves the right to select qualified applicants to the program. All admission decisions are final.
- 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.

Program Length

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

Time Limit

3 years full-time; 6 years part-time

IRHR: Industrial Relations and Human Resources PhD

Doctor of Philosophy

Program Description

The Doctor of Philosophy (PhD) degree program benefits 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 PhD 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.

Applicants may enter the PhD program via one of two routes: 1) following completion of an appropriate master's degree or 2) direct entry following completion of a bachelor's degree.

PhD Program

Minimum Admission Requirements

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.
- 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 Foundations of Industrial Relations and Human Resources*
 - IRE 1126H *Economics of Labour and Human Resources* (PR)
 - 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:

- 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). Although there is no minimum score requirement, performance on the GRE 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

Normally, requirements in Years 1 and 2 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.
 - 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 Year 2. 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 Years 3 and 4 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.
- Proficiency in **French and/or other languages** will be required when the student's supervisor deems it necessary for dissertation research or when CIRHR deems it necessary for the student's area of research.
- **Thesis and a Doctoral Final Oral Examination** on the thesis.
- 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Students who hold a bachelor's degree in industrial relations or human resources may be considered for admission to the PhD if they have exceptional academic standing and have demonstrated quantitative skills and research ability. Students will be required to complete additional courses.
- 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). Although there is no minimum score requirement, performance on the GRE 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

- Normally, requirements in Years 1 and 2 consist of a core course in Industrial Relations and Human Resources, elective courses, and courses in research methods and statistics.
- Students must take up to the equivalent of **8.5 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.
 - 4.0 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 Year 2 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 Years 3 and 4 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 4.
- Proficiency in **French and/or other languages** will be required when the student's supervisor deems it necessary for dissertation research or when CIRHR deems it necessary for the student's area of research.
- Thesis and a Doctoral Final Oral Examination** on the thesis.
- 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.

Program Length

5 years

Time Limit

7 years

IRHR: Industrial Relations and Human Resources MIRHR, PhD Courses

Required Courses

IRE 1002H	Applied Statistics in Industrial Relations
IRE 1010H	Economic Foundations of Industrial Relations and Human Resources
IRE 1126H	Economics of Labour and Human Resources (PR)
IRE 1270H	Law of Labour Relations
IRE 1338H	Law in the Workplace
IRE 1362H	Organizational Behaviour
IRE 1609H	Strategic Human Resources Management
IRE 1610H	Industrial Relations
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 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)
RSM 3062H	Methods and Research in Organizational Behaviour and Industrial Relations

Elective Courses

The Centre for Industrial Relations and Human Resources (CIRHR) offers key elective courses in both industrial relations and human resources. With the permission of the Graduate Coordinator, students may take courses in other departments and Faculties. Since graduate units give preference to their own students, CIRHR 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 CIRHR. Not all courses are offered every year. 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.

Please consult the CIRHR timetable which lists available courses in each session. The notation (PR) following a course indicates the course has a prerequisite, and additional information may be obtained from CIRHR.

Further details concerning specific courses and brief course descriptions are available on the CIRHR website.

Industrial Relations and Human Resources

IRE 1260H	Seminar on Labour Arbitration (PR)
IRE 1270H	Law of Labour Relations
IRE 1338H	Law in the Workplace
IRE 1600H	International Developments in Labour and Human Resource Policy (PR)
IRE 1611H	Sociology of Work and Organizations
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	Collective Bargaining (PR)
IRE 1640H	Contemporary Trade Unionism: Issues, Challenges, Strategy (PR)
IRE 1650H	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 2021H	Business Strategy for IR/HR
IRE 2715H	Special Topics in Industrial Relations and Human Resources
IRE 3615H	Performance Management Systems (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)

Adult Education and Counselling Psychology

APD 1268H	Career Counselling and Development: Transition in Adulthood
LHA 1101H	Approaches to Teaching Adults
LHA 1148H	Introduction to Workplace, Organizational, and Economic Democracy

Economics

ECO 2800H	Labour Economics I
ECO 2801H	Labour Economics II (PR)

Management

RSM 2129H	Forecasting Models and Econometric Methods (PR)
RSM 2612H	Managing Talent for Global Operations
RSM 2615H	Special Topics in Special Topics in Organizational Behaviour and Human Resource Management

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 and Environmental Health — Legal and Social Context
-----------	--

Sociology

SOC 6003H	Immigration II
SOC 6012H	Sociology of Work I
SOC 6112H	Sociology of Work II

Other Elective Courses

With the approval of the Graduate Coordinator, students may register in the following credit/no-credit course:

IRE 4000H	Work Term in IR/HRM (Credit/No Credit)
-----------	--

Reading Courses

In certain circumstances, and with the approval of the Graduate Coordinator, students may be allowed to take a reading or research course:

IRE 1090H	A reading course or individual research in an approved field
IRE 2090H	A reading course or individual research in an approved field

Information

Information: Introduction

Faculty Affiliation

Information

Degree Programs

Information

MI

- Concentrations:
 - Archives and Records Management (ARM);
 - Critical Information Policy Studies (CIPS);
 - Culture and Technology (C&T);
 - Human Centred Data Science (HCDS);
 - Information Systems and Design (ISD);
 - Knowledge Management and Information Management (KMIM);
 - Library and Information Science (LIS);
 - User Experience Design (UXD)

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;
 - Media, Technology, and Culture;
 - Philosophy of Information

Museum Studies

MMSt

Combined Degree Programs

- [STG, Law, JD / MI](#)
- [STG, MI /MMSt](#)
- UTM, Communication, Information and Technology (Major), Honours BA / MI (this program has closed)
- UTM, Digital Enterprise Management (Specialist), Honours BA / MI (this program has closed)
- UTM, Interactive Digital Media (Specialist), Honours BA / MI (this program has closed)

Diploma Program

Information Studies

GDiplSt, a post-master's diploma

Collaborative Specializations

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

- [Addiction Studies](#)
 - Information, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Information, MI, PhD
- [Book History and Print Culture](#)
 - Information, MI, PhD
 - Museum Studies, MMSt
- [Environmental Studies](#)
 - Information, MI, PhD
- [Food Studies](#)
 - Information, MI
 - Museum Studies, MMSt
- [Jewish Studies](#)
 - Information, PhD
 - Museum Studies, MMSt
- [Knowledge Media Design](#)
 - Information, MI, PhD
 - Museum Studies, MMSt
- [Sexual Diversity Studies](#)
 - Information, MI, PhD
 - Museum Studies, MMSt
- [Women and Gender Studies](#)
 - Information, MI, PhD
- [Women's Health](#)
 - Information, PhD

Overview

The Faculty of Information at the University of Toronto is one of the world's most important information and knowledge management schools. Information is studied and tough questions are asked for the benefit of society and the students. Located in the heart of Canada's most diverse and dynamic city, the programs are led by leading researchers and faculty across multiple disciplines and result in exceptional research and career opportunities. The Faculty of Information is the centre for information professions and leaders of research that matters.

People. Information. Technology. They intersect at the Faculty of Information, a launch pad for futures as highly skilled practitioners or researchers. Today's technologies have transformed the way we connect with, shape, and use information. Similar changes have been taking place in the field of museums and cultural heritage.

Contact and Address

Web: ischool.utoronto.ca
 General email: inquire.ischool@utoronto.ca
 Admissions email: admissions.ischool@utoronto.ca
 Telephone: (416) 978-3234
 Fax: (416) 978-5762

Faculty of Information
 University of Toronto
 140 St. George Street

Toronto, Ontario M5S 3G6
Canada

Information: Graduate Faculty

Full Members

Andritsos, Periklis - BSc, MSc, PhD, PhD
Becker, Christoph - BSc, MSc, DSc
Boase, Jeffrey - BA, MA, PhD
Boucher, Marie-Pier - BSc, MSc, PhD
Burchell, Kenzie - BA, MSA, PhD
Caidi, Nadia - PhD
Caraway, Brett - BA, MA, PhD
Chen, Julie Yujie - BA, MA, PhD
Choo, Chun Wei - BA, MSc, PhD
Cohen, Nicole - BA, MA, PhD
Coleman, Beth Malaika - BA, PhD
Cowan, T.L. - BA, MA, PhD
Dahya, Negin - BA, MEd, PhD
Dallas, Constantinos - BA, MPH, PhD, PhD
Delfanti, Alessandro - PhD
Dilevko, Juris - MLIS, MA, PhD, PhD
Duff, Wendy - BA, BA, MLS, PhD (**Dean**)
Foscarini, Fiorella - PhD
Galey, Alan - PhD
Grimes, Sara - PhD
Hartel, Jenna - PhD
Howarth, Lynne - BA, MLS, PhD
Karppi, Tero Jukka - MA, PhD
Keilty, Patrick - BA, MLIS, PhD
Krmptich, Cara - PhD
Luka, Mary Elizabeth - BA, BAA, PhD
Lyons, Kelly - BSc, MSc, PhD
MacNeil, Heather - PhD
McEwen, Rhonda - PhD
Packer, Jeremy - BA, MA, PhD
Ratto, Matt - PhD
Rault, Jasmine - BA, MA, PhD
Ross, Seamus - BA, MA, DPhil
Ryan, Dan - PhD
Shachak, Aviv - DPhil
Shade, Leslie - BA, MLIS, PhD
Sharma, Sarah - BA, MA, PhD
Smith, Brian Cantwell - BS, MS, PhD
Stanbridge, Alan - BSc, AM, DA
Stevenson, Siobhan - PhD
Tang, Tony - PhD
Xue, Jia - BCL, MA, PhD
Yu, Eric - BSc, MMath, PhD
Yu, Sherry - BA, MA, PhD

Members Emeriti

Clement, Andrew - BSc, MSc, PhD
Craig, Barbara - AM, PhD
Fleming, E. Patricia - BA, BLS, MLS
Phillips, David - PhD
Williamson, Nancy - BA, BLS, MLS

Associate Members

Dionisio, Max Vincent - PhD
Furness, Colin - BSc, PhD

McLaughlin, Hooley - BA, MS, PhD
Owen, Victoria - AB, MLS
Senderovich, Arik - PhD
St-Cyr, Olivier - PhD

Information: Information MI

Master of Information

Program Description

The MI 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:

- **Concentration pathway:** students choose one or two of eight concentrations and may complete:
 - Concentration(s) only,
 - Concentration(s) plus a thesis, or
 - Concentration(s) plus a co-op (CCO)
- **General program pathway:** students do not choose a formal concentration and may complete:
 - Coursework only,
 - Coursework plus a thesis, or
 - Coursework plus a co-op

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. Meeting the minimum requirements does not guarantee admission.
- An appropriate bachelor's degree with at least a B average (3.0 GPA) from a university recognized by the University of Toronto.
- 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. The English language

requirement may be satisfied using one of the following tests:

- 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: 107/120 with 24/30 on the speaking section and 27/30 on the writing section.
- International English Language Testing System (IELTS): a minimum required score of 7.5 overall with 7.5 on the writing section and 7.0 on the speaking section.
- Certificate of Proficiency in English (COPE): a minimum required score of 95 overall with 41 on the writing component, 27 on the reading component, and 27 on the listening component.
- English Language Program, U of T School of Continuing Studies with an overall score of A in Academic English Level 60.

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 the [Faculty of Information website](#). Acceptance is limited and not guaranteed. Inquiries about the CCO may be emailed to ischool.coop@utoronto.ca.

Concentration-Plus-Executive-Delivery Option — ISD Only (Under Review)

- Applicants interested in completing the Master of Information degree in the executive delivery option must submit application documents (transcript, a minimum of two references, personal statement). For more information, visit the [Faculty of Information website](#).
- A third letter, from the applicant's current place of employment, will be required as a condition of admission. This letter must confirm supervisory support and the intent to complete the required workplace project.
- Proof of employment (minimum two years) full-time (35 hours a week) in an area that requires interacting with the creation and design of information systems (ISD).

Program Requirements

- The minimum requirement is completion of **8.0 full-course equivalents (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.

Concentration Pathway

- The Faculty of Information offers eight concentrations leading to the MI degree:
 - Archives and Records Management (ARM)
 - Critical Information Policy Studies (CIPS)
 - Culture and Technology (C&T)
 - Human Centred Data Science (HCDS)
 - Information Systems and Design (ISD)
 - Knowledge Management and Information Management (KMIM)

- Library and Information Science (LIS)
- User Experience Design (UXD)
- Each concentration requires a **total of 8.0 FCEs**.

Concentration-Only Option

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Four or five required half courses depending on the concentration (2.0 or 2.5 FCEs total, depending on the concentration).
- Plus 10 or 11 additional elective half courses (5.0 or 5.5 FCEs total, depending on the concentration).

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. Faculty approval is required to enter the thesis option; visit the [Faculty of Information website](#) for details. For information about completing a thesis in the General Pathway, please see the General Pathway program requirements below.

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Five required half courses (2.5 FCEs total, specific to each concentration). The exception is Library and Information Science, which has four required half courses (2.0 FCEs).
- 0.5 FCE research methods course appropriate to the student's program of study, with a final grade of at least A–.
- 0.5 FCE reading course with the student's intended supervisor, with a final grade of at least A–.
- A thesis (2.0 FCEs total).
- Four additional elective half courses (2.0 FCEs total, specific to each concentration). The exception is Library and Information Science, which requires five additional elective half courses (2.5 FCEs total).

Concentration-Plus-Co-op Option

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Five required half courses (2.5 FCEs total, specific to each concentration). The exception is Library and Information Science, which requires four half courses (2.0 FCEs total).
- INF 3900H *The Emerging Professional* (0.5 FCE).
- The two 12-week co-op placement courses: INF 3902H and INF 3903H (1.0 FCE total).
- Seven additional elective half courses (3.5 FCEs total, specific to each concentration). The exception is Library and Information Science, which requires eight additional elective half courses (4.0 FCEs total.)

Concentration-Plus-Executive-Delivery Option — ISD Only (under review)

The executive delivery option is specifically for students who are full-time working professionals and who have the support of their employer to participate in an executive program delivery

model. This option is currently only available for the Information Systems & Design (ISD) concentration.

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Five required half courses: INF 1339H, INF 1341H, INF 1342H, INF 1343H, and INF 2177H (2.5 FCEs total).
- INF 3910Y *Workplace Project* (1.0 FCE), to be taken after the core and required courses are completed.
- Eight 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), INF 3900H (0.5 FCE), and 3.5 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 2240H, INF 2242H, and INF 2243H).
- 5.0 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 3.5 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 1501H, INF 1502H, INF 2241H, either INF 2320H or INF 2331H, and INF 2243H).
- 5.0 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 3.5 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: Human Centred Data Science (HCDS)

- 0.5 core FCE (INF 1005H and 1006H).
- 2.5 required FCEs (INF 1340H, INF 1344H, INF 2178H, INF 2190H, and INF 2210H).
- 5.0 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 3.5 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 (ISD)

- 0.5 core FCE (INF 1005H and 1006H).
- 2.5 required FCEs (INF 1339H, INF 1341H, INF 1342H, INF 1343H, and INF 2177H).
- 5.0 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 3.5 elective FCEs or

thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.0 elective FCEs or executive delivery option and INF 3910Y *Workplace Project* (1.0 FCE) plus 4.0 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), INF 3900H (0.5 FCE), and 3.5 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).
- 2.0 required FCEs (INF 1321H, INF 1322H, INF 1323H, and INF 1324H).
- 5.5 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 4.0 elective FCEs or thesis (2.0 FCEs), research methods course (0.5 FCE), and reading course (0.5 FCE) plus 2.5 elective FCEs.

Concentration: User Experience Design (UXD)

- 0.5 core FCE (INF 1005H and 1006H).
- 2.5 required FCEs (INF 1602H, INF 2169H, INF 2170H, INF 2191H, and INF 2192H).
- 5.0 elective FCEs or co-op (1.0 FCE), INF 3900H (0.5 FCE), and 3.5 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

Students choosing the coursework option must have their program of study approved by the Program Director.

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Three required half courses: INF 1001H, INF 1003H, and INF 1240H (1.5 FCEs total).
- 6.0 elective FCEs.

Thesis Option

Faculty approval is required to enter the thesis option. Visit the [Faculty of Information website](#) for details.

- Two quarter-weight core courses: INF 1005H and INF 1006H (0.5 FCE total).
- Three required half courses: INF 1001H, INF 1003H, and INF 1240H (1.5 FCE total).
- 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–. INF 1240H can be used to meet this requirement.

- 0.5 required FCE reading course with the students' intended supervisor, with a final grade of at least A–.
- A thesis (2.0 FCEs).
- Six elective half courses (3.0 FCEs) **or** seven elective half courses (3.5 FCEs) if INF 1240H has been completed and counted toward the research methods half-course requirement
 - These courses may include up to 2.0 FCEs taken outside the MI program.

Program Length

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

CCO and executive delivery option: 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

Information: Information Studies GDiplSt

Graduate Diploma of Advanced Study in Information Studies

Program Description

The Diploma of Advanced Study in Information Studies is a post-masters' diploma. It is designed:

- for information professionals who want to pursue further studies, but do not wish to take a PhD degree
- for practitioners who wish to advance their professional standing, develop a specialization, or redirect their career
- to build on a person's knowledge, experience, previous education, and special interests
- to be tailored to the individual's needs and interests.

Diploma of Advanced Study in Information Studies credits cannot be transferred to the PhD program, and there is no thesis option.

The diploma may be taken 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 Faculty of Information's additional admission requirements stated below.
- Applicants must have a Master of Information or equivalent degree. [Visit the Faculty of Information website for details.](#)
- The graduate diploma program will be tailored to the individual's needs and interests with courses selected in consultation with the Graduate Coordinator.
- All incoming graduate students must have a good command of English. Applicants whose primary language is

not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests. Scores must be from tests taken within the last two years.

- The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: 600 and 5.5 on the Test of Written English (TWE)
 - Internet-based TOEFL: 107/120, with 24/30 on the speaking section and 27/30 on the writing section.
- The International English Language Testing System (IELTS): a minimum required score of 7.5 overall with 7.5 on the writing section and 7.0 on the speaking section.
- Certificate of Proficiency in English (COPE): a minimum required score of 95 overall with 41 on the writing component, 27 on the reading component, and 27 on the listening component..
- English Language Program, U of T School of Continuing Studies with an overall score of A in Academic English Level 60.

Program Requirements

- Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - At least 3.0 FCEs (six half 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

Information: Information MI and Information Studies GDiplSt Courses

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 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 1321H	Representing, Documenting, and Accessing the Cultural Record
INF 1322H	Communities and Values
INF 1323H	The Information Experience
INF 1324H	Critical Infrastructures
INF 1325H	Online Information Retrieval
INF 1330H	Archives Concepts and Issues
INF 1331H	Archival Arrangement and Description
INF 1339H	Introduction to Computational Thinking
INF 1340H	Programming for Data Science
INF 1341H	Systems Analysis and Process Innovation
INF 1342H	System Requirements and Architectural Design
INF 1343H	Data Modeling and Database Design
INF 1344H	Introduction to Statistics for Data Science
INF 1501H	Culture and Technology I
INF 1502H	Culture and Technology II (prerequisite: INF 1501H)
INF 1601Y	User Experience Design Capstone Project (Credit/No Credit)
INF 1602H	Fundamentals of User Experience
INF 2010H	Reading Course
INF 2011H	Reading Course
INF 2040H	Project Management
INF 2102H	Geographic Information Systems (GIS) in Libraries
INF 2103H	Recordkeeping Cultures
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
INF 2124H	Surveillance and Identity
INF 2126H	Public Library Services to Culturally Diverse Communities
INF 2127H	Collection Development, Evaluation, and Management
INF 2129H	Graphic Novels and Comic Books in the Library
INF 2133H	Legal Literature and Librarianship
INF 2134H	Business Information Resources
INF 2135H	Evidence-Based Healthcare for Librarians
INF 2136H	Government Information 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 2146H	Trusting Records
INF 2149H	Administrative Decision-Making in Information Organizations
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 2158H	Management of Corporate and Other Special Information Centres
INF 2159H	Analytical and Historical Bibliography
INF 2161H	History of Books and Publishing
INF 2162H	Rare Books and Manuscripts

INF 2163H	Data Analysis of Social Networks
INF 2164H	UX Research and Design for Video Games (prerequisite: INF 1602H)
INF 2165H	Accessibility and Inclusive Design
INF 2166H	Business Process Management and Mining
INF 2167H	R for Data Science
INF 2169H	User-Centred Information Systems Development
INF 2170H	Information Architecture
INF 2171H	Usability Assessment: Concepts, Methods, and Tools (exclusions: INF 1005H and INF 1006H sections on Usability Assessment: Concepts, Methods and Tools)
INF 2172H	Readers' Advisory: Reference Work and Resources
INF 2173H	Information Professional Practicum (Credit/No Credit)
INF 2174H	Histories of Records and Archives
INF 2175H	Managing Organizational Records I
INF 2176H	Information Management in Organizations — Models and Platforms
INF 2177H	Information Management and Systems (prerequisite: INF 1341H)
INF 2178H	Experimental Design for Data Science (prerequisites: INF 1340H and INF 1344H)
INF 2179H	Machine Learning with Applications in Python (prerequisite: INF 1340H)
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 2185H	Libraries, Archives, Museums: Intersections and Tensions
INF 2186H	Metadata Schemas and Applications
INF 2187H	Personal Recordkeeping and Private Papers (prerequisite: INF 1330H)
INF 2190H	Data Analytics: Introduction, Methods and Practical Approaches
INF 2191H	User Interface Design
INF 2192H	Representing UX
INF 2194Y	Information Systems Design Project
INF 2195H to INF 2199H	Special Topics in Information
INF 2210H	Human Values in Data Science
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 to INF 2310H	Special Topics in Information
INF 2311H	Managing Audiovisual Materials
INF 2312H	Art Librarianship: Theory Informs Practice

INF 2313H	Introduction to Service Science
INF 2314H	Program Evaluation
INF 2315H	Digital Labour
INF 2316H	Critical Studies of Social Media
INF 2317H	Privacy Studies
INF 2318H	Platform Politics and Power
INF 2319H	Critical Approaches to Multiculturalism, Information, and Social Integration
INF 2320H	Remix Culture
INF 2325H	Launching Information Ventures
INF 2330H	Information Ethnography
INF 2331H	The Future of the Book
INF 2332H	Information Behaviour
INF 2400H to INF 2410H	Special Topics in Information
INF 3900H	The Emerging Professional
INF 3902H	Co-operative Workplace Placement I
INF 3903H	Co-operative Workplace Placement II
INF 3910Y	Workplace Project
JDM 3619H	Digital Media Distribution
JIE 1001H	Seminar in Identity, Privacy, and Security

Information: Information PhD

Doctor of Philosophy

Program Description

The PhD program in Information provides opportunities for advanced scholarly inquiry into theoretical aspects of information and in the empirical investigations of information in various contexts.

PhD students come 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.

PhD Program

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.

- 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. The English language requirement may be satisfied using one of the following tests. Scores must be from tests taken within the last two years.
 - 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: 107/120 with 24/30 on the speaking section and 27/30 on the writing section.
 - International English Language Testing System (IELTS): a minimum required score of 8.0.
 - Certificate of Proficiency in English (COPE): a minimum required score of 95 overall with 41 on the writing component, 27 on the reading component, and 27 on the listening component.
 - English Language Program, U of T School of Continuing Studies with an overall score of A in Academic English Level 60.
- 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 the School of Graduate Studies does not guarantee admission.

Program Requirements

To achieve candidacy, students must fulfil the following:

- Students in the **Media, Technology, and Culture concentration** must complete **4.0 full-course equivalents (FCEs)** as follows:
 - INF 3001H *Research in Information: Foundations* (0.5 FCE).
 - A methods course (0.5 FCE): INF 3012H *Social Scientific Methods for Media* or INF 3014H *Cultural Interpretive Methods for Media and Technology*. Course selection to be determined in consultation with the student's research advisor.
 - INF 3009H *Theory and History of Media Technology* (0.5 FCE).
 - INF 3010H *Power, Media, and Technology* (0.5 FCE).
 - 2.0 FCEs in elective courses relevant to media, technology, and culture (see elective list below).
- Students in **all other concentrations** must complete **4.0 FCEs** as follows:
 - INF 3001H *Research in Information: Foundations* (0.5 FCE).
 - A methods course (0.5 FCE): INF 3003H *Research in Information: Frameworks and Design* or a specific methods course to be determined in consultation with the student's research advisor.
 - INF 3006Y *Major Area Reading Course* (1.0 FCE) or two additional electives to be determined in consultation with the research advisor (1.0 FCE).
 - 2.0 FCEs in elective courses.
- Students in all concentrations must:
 - Complete other courses appropriate for the student's research.

- Pass a qualifying exam.
- Present and defend a thesis research proposal.
- Complete a thesis and pass a Doctoral Final Oral Examination.
- Be regularly registered in the School of Graduate Studies during each year of the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time Option)

Admissions have been administratively suspended.

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.
- 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. The English language requirement may be satisfied using one of the following tests. Scores must be from tests taken within the last two years.
 - 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: 107/120 with 24/30 on the speaking section and 27/30 on the writing section.
 - International English Language Testing System (IELTS): a minimum required score of 8.0.
 - Certificate of Proficiency in English (COPE): a minimum required score of 95 overall with 41 on the writing component, 27 on the reading component, and 27 on the listening component.
 - English Language Program, U of T School of Continuing Studies with an overall score of A in Academic English Level 60.
- 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 the School of Graduate Studies does not guarantee admission.

Program Requirements

To achieve candidacy, students must fulfil the following:

- Complete **4.0 full-course equivalents (FCEs)** as follows:
 - INF 3001H *Research in Information: Foundations* (0.5 FCE).
 - A methods course (0.5 FCE): INF 3003H *Research in Information: Frameworks and Design* or a specific methods course to be determined in consultation with the student's research advisor.
 - INF 3006Y *Major Area Reading Course* (1.0 FCE) **or** two additional electives to be determined in consultation with the research advisor (1.0 FCE).
 - 2.0 FCEs in elective courses.
- Other courses appropriate for the student's research may also be required
- Pass a qualifying exam.
- Present and defend a thesis research proposal.
- Complete a thesis and pass a Doctoral Final Oral Examination.
- 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.

Program Length

6 years

Time Limit

8 years

Information: Information PhD Courses

INF 3001H	Research in Information: Foundations
INF 3003H	Research in Information: Frameworks and Design
INF 3006Y	Major Area Reading Course
INF 3009H	Theory and History of Media Technology
INF 3010H	Power, Media, and Technology
INF 3012H	Social Scientific Methods for Media
INF 3014H	Cultural Interpretive Methods for Media and Technology
INF 3015H	Reading Course
INF 3100H	Special Topics in Information (Credit/No Credit)
INF 3101H	Special Topics in Information

Information: Museum Studies MMSt

Master of Museum Studies

Program Description

The MMSt 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 offers a [combined degree program](#) whereby students may complete both a Master of Information and 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 [Master of Museum Studies web page](#). Applicants must also satisfy the Faculty's additional admission requirements stated below. Meeting the minimum requirements does not guarantee admission.
- An appropriate bachelor's degree with an overall grade of at least a B+ average (grade point average 3.3) from a recognized university.
- Applicants must satisfy the Museum Studies program that they are capable of independent research in museum studies at an advanced level. Demonstrated previous experience in museums or related cultural organizations will also be considered. Admission to this program is competitive.
- 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. The English language requirement may be satisfied using one of the following tests:
 - 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: 107/120 with 24/30 on the speaking section and 27/30 on the writing section.
 - International English Language Testing System (IELTS): a minimum required score of 7.5 overall with 7.5 on the writing section and 7.0 on the speaking section.
 - Certificate of Proficiency in English (COPE): a minimum required score of 95 overall with 41 on the writing component, 27 on the reading component, and 27 on the listening component.
 - English Language Program, U of T School of Continuing Studies with an overall score of A in Academic English Level 60.

Program Requirements

Coursework Option

- Students must complete a minimum of **7.5 full-course equivalents (FCEs)** including:

- five required half courses (2.5 FCEs)
- MSL 4000Y *Exhibition Project* (1.0 FCE)
- eight additional courses (4.0 FCEs), of which 2.0 FCEs must be internal (Museum Studies) elective courses.

Thesis Option

- The thesis option allows students to gain experience in developing and executing a research project from beginning to end. Students gain familiarity with the research process and hone their research skills. 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.
- Students must complete **7.5 full-course equivalents (FCEs)** as follows:
 - 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)
 - five additional courses (2.5 FCEs), of which up to four graduate half courses (2.0 FCEs) may be taken outside the MMSt program.
- 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

Information: Museum Studies MMSt Courses

Not all courses are offered every year. Please consult the [Faculty of Information 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	The Museum Exhibition: Histories, Practices, Genres
MSL 2370H	Museums and Cultural Heritage: Context and Critical Issues
<i>either</i> MSL 2350H	Museum Planning and Management: Projects and Fundraising
<i>or</i> INF 2040H	Project Management

<i>either</i> MSL 4000Y <i>or</i> Thesis option	Exhibition Project
---	--------------------

MMSt Elective Courses

Internal (Museum Studies) Elective Courses

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 2301H to MSL 2310H	Special Topics in Museum Studies
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
MSL 2360H	Museums and Indigenous Communities: Changing Relationships, Changing Practice
MSL 2500H	Constructing and Curating Digital Heritage
MSL 3000H	Internship (prerequisite: INF 3900H)
MSL 5050H	Special Studies

External Elective Courses

Courses relevant to the Museum Studies program and student interests are available on the [program web page](#).

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 1006H	Media, Mind, and Society I
C&T 1008H	Media, Mind, and Society II
C&T 1009H	New Media and Policy

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.

Italian Studies

Italian Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Italian Studies

MA

- Field:
 - Italian Literature

PhD

- Fields:
 - Middle Ages and Renaissance;
 - Seventeenth and Eighteenth Centuries;
 - Nineteenth and Twentieth Centuries

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - Italian Studies, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Italian Studies, PhD
- [Sexual Diversity Studies](#)
 - Italian Studies, MA, PhD

Overview

Graduate students in the Department of Italian Studies come from several parts of the world, including Canada, the United States, and Europe. Faculty members are heavily engaged in teaching and research in their fields. Some of them are associated at the graduate level with the Centre for Comparative Literature, the Centre for Medieval Studies, the McLuhan program, Cinema Studies, and the Centre for Drama, Theatre and Performance Studies.

Contact and Address

Web: 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

Italian Studies: Graduate Faculty

Full Members

Bancheri, Salvatore - BA, MA, PhD
 Eisenbichler, Konrad - BA, MA, PhD
 Guardiani, Francesco - MA, PhD
 Lettieri, Michael - BA, MA, PhD
 Pierno, Franco - BA, MA, PhD
 Pietropaolo, Domenico - BSc, MA, PhD
 Robins, William - BA, MPH, PhD
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Somigli, Luca - PhD (**Graduate Coordinator**)
 Terpstra, Nicholas - BA, MA, PhD (**Interim and Graduate Chair; Emilio Goggio Chair in Italian Studies**)

Associate Members

Casini, Simone - BA, MA, PhD

Italian Studies: Italian Studies MA

Master of Arts

Program Description

The MA program offers advanced education in Italian literature and provides training in research techniques.

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 twenty-first 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

- **Coursework.** Successful completion of **4.5 full-course equivalents (FCEs)** as follows:
 - ITA 1000H *Methodologies for the Teaching and Study of Italian* (0.5 FCE)
 - 4.0 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

Italian Studies: Italian Studies PhD

Doctor of Philosophy

Program Description

The PhD 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 trained 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.

Applicants may enter the PhD program via one of two routes: (1) following completion of an appropriate MA degree or (2) direct entry after completing a bachelor's degree.

PhD Program

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 the University of Toronto MA or its equivalent with an overall average of at least A– in courses. Please note that an A– average does not guarantee admission to the 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

- **Coursework.** Students normally complete **4.5 full-course equivalents (FCEs)** as follows:
 - 4.0 graduate FCEs including a mandatory extra-departmental course (0.5 FCE) chosen in consultation with the Graduate Coordinator.

- ITA 1000H *Methodologies for the Teaching and Study of Italian* (0.5 FCE);

- **Language requirements.** Students 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.
- **Program progress.** 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- 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

- **Coursework.** Students will normally complete **8.5 full-course equivalents (FCEs)** as follows:
 - 8.0 graduate FCEs, including a mandatory extra-departmental course (0.5 FCE) In consultation with the Graduate Coordinator.
 - ITA 1000H *Methodologies for the Teaching and Study of Italian* (0.5 FCE);
- **Language requirements.** Students 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.

- **Program progress.** 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.

ITA 1735H	Topics in Italian Studies I
ITA 1736H	Topics in Italian Studies II
ITA 1737H	Topics in Italian Studies
ITA 1755H	Italian Modernism
ITA 1760H	Futurism
ITA 1810H	Studies in Italian Literature and Film
ITA 1820H	The Mediterranean Noir: A Transnational Approach
ITA 1815H	Issues in Italian Film Historiography
MST 3162H	Boccaccio and Chaucer

Program Length

5 years

Time Limit

7 years

Italian Studies: Italian Studies MA, PhD Courses

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 1030H	Italian Lexicography
ITA 1031H	History of Italian Language in North America
ITA 1165H	Introduction to Italian Philology
ITA 1177H	The Italian Questione della Lingua
ITA 1200H	Dante
ITA 1202H	Dante as a Reader of Augustine's City of God: Augustinian Textual Communities at the Beginning of the 14th Century
ITA 1203H	Boccaccio
ITA 1235H	Topics in Italian Studies
ITA 1330H	Petrarch and Petrarchism
ITA 1520H	Renaissance Humanism
ITA 1535H	Topics in Italian Literature
ITA 1540H	Renaissance Italian Theatre
ITA 1550H	Sixteenth-Century Florence
ITA 1552H	Pietro Aretino and the Italian Renaissance
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
ITA 1610H	Seventeenth and Eighteenth-Century Theatre
ITA 1645H	Post-Tridentine Religious Drama
ITA 1650H	Neoclassical and Pre-Romantic Literary Culture
ITA 1705H	Pirandello
ITA 1710H	Aspects of Modern Italian Poetry

Kinesiology

Kinesiology: Introduction

Faculty Affiliation

Kinesiology and Physical Education

Degree Programs

Kinesiology

MSc and PhD

Professional Kinesiology

MPK

Note: Admissions to the Master of Professional Kinesiology have been temporarily suspended. It is expected that admissions will reopen in time to admit students for Fall 2021.

Collaborative Specializations

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

- [Cardiovascular Sciences](#)
 - Kinesiology, MSc, PhD
- [Health Services and Policy Research](#)
 - Kinesiology, MSc, PhD
- [Musculoskeletal Sciences](#)
 - Kinesiology, MSc, PhD
- [Public Health Policy](#)
 - Kinesiology, MSc, PhD
- [Sexual Diversity Studies](#)
 - Kinesiology, MSc, PhD
- [Women and Gender Studies](#)
 - Kinesiology, MSc, PhD
- [Women's Health](#)
 - Kinesiology, MSc, PhD

Overview

The field of Kinesiology is interdisciplinary. All degree programs are for students interested in research, academic, and professional careers relating to:

- Applied/exercise/environmental physiology
- Biomechanics and ergonomics
- Health-care provision as a kinesiologist
- Metabolic and endocrinological aspects of physical activity
- Motor control and motor learning
- Muscle physiology
- Physical cultural aspects of sport and physical activity
- Physical fitness and athletic strength and conditioning
- Psychological aspects of sport and physical activity

- Psychophysiological aspects of exercise and stress
- Women's health and physical activity.

Contact and Address

Web: kpe.utoronto.ca
 Email: exs.kpe@utoronto.ca
 Telephone: (416) 978-6087
 Fax: (416) 971-2118

Graduate Department of Kinesiology
 Faculty of Kinesiology and Physical Education
 University of Toronto
 55 Harbord Street
 Toronto, Ontario M5S 2W6
 Canada

Kinesiology: Graduate Faculty

Full Members

Amara, Catherine - BSc, MSc, PhD
 Arbour, Kelly - BSc, MSc, PhD
 Atkinson, Michael - BA, MA, PhD (**Director of Graduate Studies**)
 Cairney, John - BA, MA, PhD
 Chapman, Kenneth - MSc, MD
 Corey, Paul - BSc, MA, PhD
 Donnelly, Peter - BA, MS, PhD
 Faulkner, Guy - BE, MSc, DPhil
 Fernie, Geoffrey - BSc, PhD
 Fusco, Caroline - BA, MSc, PhD
 Goodman, Jack - BPHE, MSc, PhD
 Heslegrave, Ronald - PhD
 Jacobs, Ira - MHK, MSD, DipPE (**Dean**)
 Kerr, Gretchen - BPHE, MA, PhD
 Kidd, Bruce - BA, AM, MA, PhD, OC
 Leith, Larry - BA, MA, PhD
 Lenskyj, Helen - BA, MA, PhD
 Locke, Marius - BA, BSc, PhD
 MacNeill, Margaret - BPHE, MA, PhD
 Mainwaring, Lynda - BA, MHK, PhD, CPsych
 Moore, Daniel - BASc, PhD
 Pyley, Michael - PhD
 Sabiston, Catherine - BS, MA, PhD
 Santa Mina, Daniel - BSc, MSc, PhD
 Shek, Pang - BSc, MSc, PhD
 Tamminen, Katherine - BA, MA, PhD
 Thomas, Scott - BSc, MSc, PhD
 Tremblay, Luc - BSc, MSc, PhD (**Associate Dean, Research**)
 Welsh, Timothy - BPHE, MSc, PhD

Members Emeriti

Evans, Mark - BE, BA, MA, PhD
 Radomski, Manny - PhD
 Shephard, Roy - BSc, BS, MB, MD, PhD

Associate Members

Beach, Tyson - BSc, MSc, PhD
 Chen, Joyce - BSc(PT), BPHE, PhD, ScD

Evans, Michael Blair - BA, MA, PhD
 Frost, David - BScEE, BA, BPHE, MSc, DPhil
 Gillen, Jenna - BPHE, PhD
 Hutchison, Michael - BPHE, MSc, PhD
 Joseph, Janelle - BSc, MSc
 Langelier, David - MD
 Matthew, Andrew - BA, MA, PhD
 Mertens, Luc - MD
 Mittal, Nimish - MD
 Oh, Paul - MSc, MD
 Rhind, Shawn - BPHE, PhD
 Richards, Doug - MD
 Sasson, Zion - MD
 Stirling, Ashley - BPHE, MS, PhD (***Vice-Dean, Academic Affairs***)
 Taha, Timur - BA, MEd, PhD
 Trinh, Linda - AB, MA, PhD
 Wells, Greg - BPHE, MSc, PhD
 West, Daniel - BSc

Kinesiology: Kinesiology MSc

Master of Science

Program Description

The MSc program is intended to broaden students' understanding of the various interdisciplinary aspects of kinesiology as well as to provide them with the necessary scholarly and technical research skills so that they may pursue a high-quality research project.

The MSc program can be taken 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 Graduate Department of Kinesiology's additional admission requirements stated below.
- An appropriate Bachelor of Physical Health Education, Bachelor of Kinesiology, or its equivalent from the University of Toronto or from another recognized university.
- A background in physical education and health or a discipline compatible with the research interests and interdisciplinary nature of the Faculty of Kinesiology and Physical Education is preferred.
- An academic standing equivalent to a University of Toronto B+ (76% to 79%) in the last five full-course equivalents of relevant, senior-level courses.
- Proficiency in the English language must be demonstrated by all applicants educated outside Canada whose primary language is not English and who graduate 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)
 - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.

Program Requirements

- **Coursework.** 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 Kinesiology.
 - 0.5 FCE in Kinesiology
 - 0.5 FCE Statistics or Methodology course
 - 1.0 FCE from either Kinesiology or another department
- SRM 3335H⁺, a graduate seminar in Kinesiology (0.0 FCE).
- 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.

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

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

Kinesiology: Kinesiology PhD

Doctor of Philosophy

Program Description

Doctoral students are encouraged to develop a program of study that will enhance their basic understanding of critical areas of study within kinesiology and have a direct impact on their research program. Students are also expected to further develop their scholarly and technical research skills so that they may pursue a high-quality research project.

Applicants may enter the PhD program via one of two routes: 1) following completion of an MSc degree; or 2) direct entry following completion of a BSc degree.

The PhD program can be taken on a full-time or flexible-time basis.

PhD 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 Kinesiology's additional admission requirements stated below.

- A master's degree from the University of Toronto or a recognized university. Formal graduate training in kinesiology is preferred.
- Successful defence of a master's thesis at a recognized university.
- An academic standing equivalent to a University of Toronto A– (80% to 84%) in the master's degree completed.
- A potential supervisor identified from the Faculty of Kinesiology and Physical Education. A supervisor is not required at the time of application, but applicants are encouraged to begin their search early. See the [full list of faculty members](#). Only applicants who have a supervisor will be admitted to 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)
 - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.

Program Requirements

- Full-time registration (Fall, Spring, Summer sessions) throughout the entire doctoral program.
- **Coursework.** Students must successfully complete a total of **1.5 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE from either Kinesiology or another department
 - 0.5 FCE Statistics or Methodology course
- SRD 4445H⁺, a graduate **seminar** in Kinesiology (0.0 FCE).
- All courses must be approved in advance by the student's supervisor.
- The student's annual program plan must be approved by the supervisor.
- 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 Kinesiology.
- **Oral defence** of the thesis before an examination committee approved by the School of Graduate Studies.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Graduate Department of Kinesiology's additional admission requirements stated below.
- An appropriate Bachelor of Kinesiology degree or its equivalent from the University of Toronto or from another recognized university.
- A background in kinesiology or a discipline compatible with the research interests and interdisciplinary nature of the Faculty of Kinesiology and Physical Education is preferred.
- An academic standing equivalent to a University of Toronto A– (80% to 84%) in the last five full-course equivalents of relevant, senior-level courses.
- A potential supervisor identified from the Faculty of Kinesiology and Physical Education. A supervisor is not required at the time of application, but applicants are encouraged to begin their search early. See the [full list of faculty members](#). Only applicants who have a supervisor will be admitted to 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)
 - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.

Program Requirements

- Full-time registration (Fall, Spring, Summer sessions) throughout the entire doctoral program.
- **Coursework.** Students must successfully complete a total of **2.5 full-course equivalents (FCEs)** as follows. All courses must be approved in advance by the student's supervisor.
 - 2.0 FCEs from either Kinesiology or another department
 - 0.5 FCE Statistics or Methodology course
- SRD 4445H⁺, a graduate **seminar** in Kinesiology (0.0 FCE).
- All courses must be approved in advance by the student's supervisor.
- The student's annual program plan must be approved by the supervisor.
- 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 Kinesiology.
- **Oral defence** of the thesis before an examination committee approved by the School of Graduate Studies.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Flexible-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 Kinesiology's additional admission requirements stated below.
- A master's degree from the University of Toronto or a recognized university. Formal graduate training in kinesiology is preferred.
- Successful defence of a master's thesis at a recognized university.
- An academic standing equivalent to a University of Toronto A– (80% to 84%) in the master's degree completed.
- A potential supervisor identified from the Faculty of Kinesiology and Physical Education. A supervisor is not required at the time of application, but applicants are encouraged to begin their search early. See the full list of [faculty members](#). Only applicants who have a supervisor will be admitted to 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)
 - Internet-based test: 100/120 overall and 22/30 on the writing and speaking sections.

Program Requirements

- With the approval of the Director, Graduate Studies, 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.
- **Coursework.** Students must successfully complete a total of **1.5 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE from either Kinesiology or another department
 - 0.5 FCE Statistics or Methodology course
- SRD 4445H⁺, a graduate **seminar** in Kinesiology (0.0 FCE).
- All courses must be approved in advance by the student's supervisor.
- The student's annual program plan must be approved by the supervisor.
- 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 Kinesiology.

- **Oral defence** of the thesis before an examination committee approved by the School of Graduate Studies.
- Flexible-time students must 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

6 years

Time Limit

8 years

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

Kinesiology: Kinesiology MSc, PhD Courses

Not all courses are offered every year. Please visit the departmental website for [course timetables](#).

KIN 1150H	Safeguarding Youth in Sport
KIN 1152H	Psychological Issues in Sport-Related Concussion
KIN 5502H	Aging and Functional Capacity: an Integrative Approach
KIN 5503H	Adaptations to Habitual Activity
KIN 5505H	Neuromotor Behaviour
KIN 5507H	Desire and Bodies in Place
KIN 5508H	Cardiovascular Disease and Exercise
KIN 5509H	Applied Muscle Physiology and Biochemistry
KIN 5510H	Qualitative Inquiry and Physical Cultural Studies
KIN 5513H	Current Issues in Exercise Psychology
KIN 5514H	Human Sensory and Motor Neurophysiology
KIN 5515H	Research Methods in Physical Activity and Health
KIN 5518H	Physical Cultural Studies and Social Theory
KIN 5521H	Stress and Coping
KIN 5525H	Quantitative Motion Analysis
KIN 5530H	Extreme Human Physiology
KIN 5531H	Skeletal Muscle Plasticity
KIN 5532H	Knowledge Translation
KIN 5533H	Current Issues in Sport Psychology
KIN 5534H	Sport, Politics, and Social Development
KIN 5535H	Neurorehabilitation and Exercise
KIN 5536H	Qualitative Inquiry in Sport and Physical Activity
KIN 5537H	Health, Media, and Social Change
KIN 5538H	Special Topics in Exercise Oncology
KIN 5539H	Advanced Disordered Movement and Neurorehabilitation
KIN 5540H	Narrative Methods in Health Research
KIN 5541H	Advanced Exercise Metabolism

KIN 5542H	Special Topics in Sport-Related Concussion
KIN 5543H	Race, Indigeneity, and Physical Culture [pending approval]
KIN 7001H	Directed Reading in Exercise Sciences
KIN 7002H*	Directed Research Project in Exercise Sciences
SRM 3335H*	Master's Seminar Series — Compulsory Attendance
SRD 4445H*	Doctoral Seminar Series — Compulsory Attendance

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

Kinesiology: Professional Kinesiology MPK

Master of Professional Kinesiology

Admissions to the Master of Professional Kinesiology have been temporarily suspended. It is expected that admissions will reopen in time to admit students for Fall 2021.

Program Description

The first master's-level program of its kind in Ontario, the MPK program offers students an opportunity to gain advanced knowledge and skills in the professional practice of kinesiology. The MPK provides unparalleled learning environments for hands-on practice working alongside leading practitioners. This program is suitable for those who are just beginning their careers, and those who have experience as registered kinesiologists and are looking for advanced professional development.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants must also satisfy the Graduate Department of Kinesiology's additional admission requirements stated below.
- Applicants must have a four-year bachelor's degree in kinesiology, physical education, human kinetics, or an equivalent degree, with a minimum mid-B average (73% to 76%) in the final year.
- 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);
 - 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.

MPK 3999H	Introduction to Professional Kinesiology
MPK 4000H	Introduction to Human Movement in Professional Kinesiology
MPK 4001Y	Clinical Assessment and Interventions
MPK 4002Y	Biophysical Assessment and Interventions
MPK 4003Y	Behavioral Assessment and Interventions
MPK 4004Y	Physical, Culture, Health and Social Environments
MPK 4005H	Strength Based Professional Practice
MPK 4006H	Interprofessional Practice
MPK 4007Y	Practice Setting Considerations
MPK 4008Y	Evidence Supported Practice
MPK 4009H	Business of Kinesiology and Entrepreneurship
MPK 4010H*	Professional Practice
MPK 4012Y	Capstone Project: Improving Kinesiology Practice
MPK 4015H	Practice and Program Evaluation
MPK 8001H*	Placement 1 (120 hours)
MPK 8002H	Placement 2 (240 hours)
MPK 8003H	Placement 3 (240 hours)

* *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

Laboratory Medicine and Pathobiology

LMP: Introduction

Faculty Affiliation

Medicine

Degree Programs

Laboratory Medicine

MHSc

- Fields:
 - Clinical Embryology
 - Pathologists' Assistant

Laboratory Medicine and Pathobiology

MSc and PhD

Translational Research in the Health Sciences

MHSc

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Cardiovascular Sciences](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Developmental Biology](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Genome Biology and Bioinformatics](#)
 - Laboratory Medicine and Pathobiology, PhD
- [Musculoskeletal Sciences](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Neuroscience](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Resuscitation Sciences](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD
- [Toxicology](#)
 - Laboratory Medicine and Pathobiology, MSc, PhD

Overview

As part of the Faculty of Medicine, the Department of Laboratory Medicine and Pathobiology offers unparalleled access to more than 350 expert faculty including basic scientists, pathobiologists, laboratory physicians, and scientists; outstanding case material; a stunning array of research opportunities; diverse training sites; engaging student-run organizations.

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

Laboratory Medicine and Pathobiology Program

Web: www.lmp.utoronto.ca
 Email: lmp.grad@utoronto.ca
 Telephone: (416) 978-2663
 Fax: (416) 978-7361

Department of Laboratory Medicine and Pathobiology
 University of Toronto
 Medical Sciences Building
 Room 6209, 1 King's College Circle
 Toronto, Ontario M5S 1A8
 Canada

Translational Research in the Health Sciences Program

Web: trp.utoronto.ca
 Email: trp@utoronto.ca
 Telephone: (416) 978-4474

University of Toronto
Old Administration Building
263 McCaul, Room 120
Toronto, ON, M5T 1W7
Canada

LMP: Graduate Faculty

Full Members

Abdelhaleem, Mohamed - MSc, MBChB, PhD
Adeli, Khosrow - DipChem, MSc, PhD
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
Boggs, Joan - MSc, PhD
Boyd, Shelley - BM
Bozec, Laurent - BSc, PhD
Branch, Donald - BA, BSc, PhD
Bremner, Roderick Angus - BSc, PhD
Brown, Martha - BSc, MSc, PhD
Brown, Theodore - BSc, 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
Dabdoub, Alain - BSc
Das, Sunit - DrMed
Delabie, Jan - MD, PhD
Dennis, James - PhD
Diamandis, Eleftherios - BSc, MD, PhD
Dirks, Peter Benjamin - MD, PhD
Dittakavi, Sarma - BSc, MSc, PhD
Done, Susan - BA, MA, MBA, BCh, MB, PhD
Drucker, Daniel - MD
Elsholtz, Harry - BSc, MSc, PhD
Gallinger, Steven - MSc, MD
Gilbert, Richard - MBBS, PhD
Girardin, Stephen - BSc, PhD
Gotlieb, Avrum - BSc, MDCM
Grynpas, Marc - MSc, PhD
Hamel, Paul - BSc, PhD
Hamilton, Robert - BSc, MD, PhD
Harrison, Rene - BS, MS, PhD
Harrison, Robert - PhD, DSc
Hawkins, Cynthia - MD, PhD
Hedley, David - MD
Hegele, Richard - MD
Hinek, Aleksander - MD, PhD
Hu, Jim - BSc, PhD
Huang, Annie - MD
Husain, Mansoor - MB, MD
Hwang, David - BSc, MD, PhD
Irwin, David - BSc, PhD
Jamieson, Frances - MD
Joshi-Sukhwai, Sadhna - BSc, MSc, PhD, DSc
Jothy, Serge - MSc, MD, PhD
Kain, Kevin - MD
Kalia, Lorraine - BSc, MD, PhD
Kamel-Reid, Suzanne - BA, MA, PhD
Kandel, Rita - MD (**Chair**)

Khokha, Rama - BSc, MSc, PhD
Kingdom, John - DipCH, MB, MD
Kovacs, Gabor - MD, PhD
Lazarus, Alan - PhD
Lee, Warren - MD, PhD
Levy, Gary - BSc, MD
Lingwood, Clifford - BSc, PhD
MacParland, Sonya - BS, MS, 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 (**Coordinator of Graduate Studies**)
Moriarty, Tara - BA, BSc, PhD
Ni, Heyu - MSc, MD, PhD
O'Brien, Catherine - BSc, MSc, DrMed, PhD
Ohh, Michael - BSc, PhD (**Coordinator of Graduate Studies**)
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
Reber, Michael - PhD
Richardson, Susan - BSc, MDCM
Robbins, Clinton Shane - BS, PhD
Robertson, Janice - BSc, PhD
Rosenblum, Norman - MD
Rozakis-Adcock, Maria - BSc, PhD
Rutka, James - BSc, LMCC, MD, PhD
Schmitt-Ulms, Gerold - BSc, MSc, DrRerNat
Schoormans, Carol - PhD
Semple, John - PhD
Seth, Arun - MS, PhD
Shaw, Patricia - SB, MD
Sherman, Philip - MD
Shlien, Adam - BS, PhD
Strauss, Bradley - MD
Swallow, Carol - BA, MD, PhD
Taylor, Michael - BSc, DrMed, PhD
Templeton, Douglas - BSc, MD, PhD
Tenenbaum, Howard - DipPerio, DDS, PhD
Thorne, Paul - MD, DPhil
Tsao, Ming-Sound - BSc, MD
van der Kwast, Theodorus - MD, PhD
Wang, Chen - MD, PhD
Wilson, Gregory - MSc, MD
Winer, Daniel - BS, MD
Wong, Pui-Yuen - BSc, PhD
Yang, Burton - BSc, MSc, PhD
Yeger, Herman - BSc, MScPhm, PhD
Yousef, George - MSc, MD, PhD
Yucel, Yeni - MD
Yuen, Darren - BSc, MD, PhD
Yuzwa, Scott - BS, PhD
Zacksenhaus, Eldad - PhD
Zhang, Li - MSc, MD, PhD

Members Emeriti

Marks, Alexander - MD, PhD
Shek, Pang - BSc, MSc, PhD

Associate Members

Berman, Hal K. - MD, PhD
 Callum, Jeannie - BA, MD
 Chandran, Vinod - MBBS, PhD
 Chang, Hong - MSc, MD, PhD
 Changoor, Adele - BS, MS, PhD
 Dickson, Brendan C. - BSc, MSc, MD
 Drabovich, Andrei - MS, PhD
 Fattouh, Ramzi - BS, PhD
 Fittipaldi, Nahuel Vicente - BS, MS, PhD
 Foty, Richard - PhD, PhD
 Gandhi, Rajiv - BSc, MSc, MD
 Gao, Andrew - BSc, MSc, MD
 Ghaffar, Hasan - BSc, MD
 Gnaneshan, Saravanamuttu - BS, PhD
 Hamilton, Scot - BS, MS, PhD
 Johnstone, Jennie - BSc, MD, PhD
 Kalia, Suneil - BSc, MD, PhD
 Keating, Sarah - MSc, MD
 Kongkham, Paul - BSc, MD, PhD
 Konvalinka, Ana - DrMed
 Kulasingam, Vathany - BSc, PhD
 Kus, Julianne - BS, MS, 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
 Munoz, David - MSc, MD
 Ng, Dominic - MD
 Nguyen, Lananh - BA, MS, MD
 Parks, William - AB, MD
 Pasic, Maria - BS, PhD
 Pavenski, Katerina - BSc, MD
 Petrich, Astrid - BSc, PhD
 Pollanen, Michael - BSc, MD, PhD
 Poutanen, Susan - MPH, MD
 Radovanovic, Ivan - MD, PhD
 Riddell, Robert - LMCC, LRCP, MBBS
 Rouzbahman, Marjan - MD
 Saleeb, Rola - MBChB, PhD
 Shrestha, Annie - MSc, BDS, PhD
 Simor, Andrew - MD
 Somers, Gino - MBBS, BMedSc, PhD
 Spears, Melanie - BS, PhD
 Stavropoulos, Dimitri James - BSc, MSc, PhD
 Sung, Hoon-Ki - MS, MD, PhD
 Tein, Ingrid - MD
 Vasconcelos, Sara - PhD
 Visanji, Naomi - BS, PhD
 Waters, Valerie - MD
 Wong, Amy - BS, MS, PhD

LMP: Laboratory Medicine MHSc

Master of Health Science

Program Description

The Master of Health Science (MHSc) in Laboratory Medicine is a two-year professional (coursework and practicum) master's degree designed to educate and train highly skilled health laboratory scientists in one of **two fields: Pathologists'**

Assistant (PA) or Clinical Embryology (CE). The program imparts general core knowledge and skills and the specific basic and applied principles of anatomic pathology or of assisted reproductive technology (ART) required to work as laboratory scientists. These principles are the foundation upon which PAs or CEs develop fundamental applied and practical knowledge and skills to function as competent, high-quality clinical scientists. The nature of this graduate program equips trainees to apply their knowledge to complex decision making, to serious ethical issues, and to develop a strong sense of personal accountability and intellectual rigour and independence.

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.
- Admission is based on demonstrated exceptional scholarly achievement, using the following criteria:
 - one-page statement summarizing how this program will contribute to the advancement of the applicant's professional goals, identifying their field of preference
 - curriculum vitae (CV)
 - two letters of reference, one of which should be familiar with the applicant's scholarly activities.
- Applicants must have an appropriate BSc degree from a recognized university, with an average of at least B+ in the last two years of study. Applicants must have a demonstrated interest in human biological and life sciences, preferably with a major or specialist program in the life sciences. These programs prepare students for the study of biomedical science, for fluency in biomedical terminology, and for critical evaluation of biomedical literature. Courses in human anatomy and physiology are desirable.
 - All potential students will be interviewed prior to final acceptance into the program. The initial selection of students will be based on a combination of their academic record, individual statement, and letters of reference. These students will be asked to participate in an interview with the program coordinator to determine the fit with the program and student's goals.
- Applicants who were 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, must demonstrate proficiency in the English language through the successful completion of the following tests:
 - [Test of English as a Foreign Language \(TOEFL\)](#) with the following minimum required scores: Internet-based TOEFL: 100/120 and 22/30 on the writing and speaking sections
 - [International English Language Testing Systems \(IELTS\)](#) required score: 8.0 (Academic) with at least 6.5 for each component
 - [Certificate of English Proficiency \(COPE\)](#) with the following minimum required scores: 86 total with 22 on the listening component, 22 on the reading component, and 32 on the writing component
 - School of Continuing Studies, University of Toronto, [Academic English course](#). Required score: a final grade of B in Level 60 (Advanced).

Program Requirements

Field: Clinical Embryology

- **Coursework.** Students must successfully complete a total of **9.5 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs taken by all students:
 - LMP 2000H *Cell and Molecular Biology* (0.5 FCE)
 - LMP 2001H *Biomedical Research Methods* (0.5 FCE)
 - LMP 2002H *Clinical Laboratory Management* (0.5 FCE)
 - LMP 2003H *Biomedical Ethics* (0.5 FCE)
 - LMP 2004H *Biostatistics* (0.5 FCE)
 - LMP 2005Y⁰ *Capstone Project in Laboratory Medicine* (1.0 FCE)
 - 0.5 elective FCE chosen from a course offered in LMP or any other graduate department, with approval of the field director.
 - 4.0 FCEs specific to this field:
 - LMP 2100H *Advanced Reproductive Physiology and Pathology* (0.5 FCE)
 - LMP 2102H *Foundations in ART (Assisted Reproductive Technology)* (0.5 FCE)
 - LMP 2103H *Reproductive Genetics* (0.5 FCE)
 - LMP 2104H *Applied Methods in ART* (0.5 FCE)
 - LMP 2105H *Innovations in ART* (0.5 FCE)
 - LMP 2106H *Current Topics in Causes and Treatment of Infertility* (0.5 FCE)
 - LMP 2107H *Applied ART Laboratory Decision Making* (0.5 FCE)
 - MSC 1008H *Advanced Human Embryology and Teratology* (0.5 FCE)
 - 1.5 FCEs of practicum courses
 - LMP 2108H *CE Lab Simulation I* (0.5 FCE)
 - LMP 2109H *CE Lab Simulation II* (0.5 FCE)
 - LMP 2110H *ART Lab Rotations* (0.5 FCE)
- Students who fail a course will be offered remediation in the form of additional readings and assignments by the course director. If a student fails two courses or the offered remediation, they will be required to repeat the year.

Field: Pathologists' Assistant

- **Coursework.** Students must successfully complete a total of **9.5 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs taken by all students:
 - LMP 2000H *Cell and Molecular Biology* (0.5 FCE)
 - LMP 2001H *Biomedical Research Methods* (0.5 FCE)
 - LMP 2002H *Clinical Laboratory Management* (0.5 FCE)
 - LMP 2003H *Biomedical Ethics* (0.5 FCE)
 - LMP 2004H *Biostatistics* (0.5 FCE)
 - LMP 2005Y⁰ *Capstone Project in Laboratory Medicine* (1.0 FCE)
 - 0.5 elective FCE chosen from a course offered in LMP or any other graduate department, with approval of the field director.
 - 1.5 FCEs specific to this field:
 - LMP 2200H *Basic Principles in Human Pathobiology and Pathophysiology* (0.5 FCE)
 - LMP 2201H *Anatomy and Pathology of Organ Systems* (0.5 FCE)
 - LMP 2208H *Biobanking for Research* (0.5 FCE)
 - 4.0 FCEs of practicum courses

- LMP 2202H *Practicum in Surgical Pathology I* (0.5 FCE)
- LMP 2203H *Practicum in Surgical Pathology II* (0.5 FCE)
- LMP 2204H *Practicum in Surgical Pathology III* (0.5 FCE)
- LMP 2205H *Practicum in Surgical Pathology IV* (0.5 FCE)
- LMP 2206H *Practicum in Autopsy Pathology* (0.5 FCE)
- LMP 2207H *Practicum in Forensic Pathology I* (0.5 FCE)
- LMP 2209H *Practicum in Surgical Pathology V* (0.5 FCE)
- LMP 2210H *Practicum in Surgical Pathology VI* (0.5 FCE)
- Students who fail a course will be offered remediation in the form of additional readings and assignments by the course director. If a student fails two courses or the offered remediation, they will be required to repeat the year.

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.

LMP: Laboratory Medicine MHSc Courses

Not all courses are offered every year. Please check the departmental website for [course availability](#).

Core Courses

LMP 2000H	Cell and Molecular Biology
LMP 2001H	Biomedical Research Methods
LMP 2002H	Clinical Laboratory Management
LMP 2003H	Biomedical Ethics
LMP 2004H	Biostatistics
LMP 2005Y ⁰	Capstone Project in Laboratory Medicine (prerequisites: PA field: LMP 2200H, LMP 2201H, LMP 2202H, LMP 2203H; CE field: LMP 2100H, LMP 2102H, LMP 2103H, LMP 2104H, MSC 1008H)

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

Clinical Embryology Courses

LMP 2100H	Advanced Reproductive Physiology and Pathology
-----------	--

LMP 2102H	Foundations in ART (Assisted Reproductive Technology) (prerequisite: LMP 2100H)
LMP 2103H	Reproductive Genetics (prerequisites: LMP 2000H, LMP 2100H)
LMP 2104H	Applied Methods in ART (prerequisite: LMP 2102H)
LMP 2105H	Innovations in ART (prerequisites: LMP 2000H, LMP 2001H, LMP 2002H, LMP 2003H, LMP 2004H, LMP 2102H, LMP 2103H, LMP 2104H)
LMP 2106H	Current Topics in Causes and Treatment of Infertility (prerequisites: LMP 2100H, LMP 2102H)
LMP 2107H	Applied ART Laboratory Decision Making (prerequisites: LMP 2001H, LMP 2003H, LMP 2004H, LMP 2102H, LMP 2104H; corequisite: LMP 2105H)
LMP 2108H	Clinical Embryology Laboratory Simulation I (prerequisites: LMP 2102H, LMP 2104H, LMP 2107H)
LMP 2109H	Clinical Embryology Laboratory Simulation II (prerequisites: LMP 2102H, LMP 2104H, LMP 2107H)
LMP 2110H	ART Lab Rotations
MSC 1008H	Advanced Human Embryology and Teratology

Pathologists' Assistant Courses

LMP 2200H	Basic Principles in Human Pathobiology and Pathophysiology
LMP 2201H	Anatomy and Pathology of Organ Systems
LMP 2202H	Practicum in Surgical Pathology I
LMP 2203H	Practicum in Surgical Pathology II
LMP 2204H	Practicum in Surgical Pathology III
LMP 2205H	Practicum in Surgical Pathology IV
LMP 2206H	Practicum in Autopsy Pathology
LMP 2207H	Practicum in Forensic Pathology
LMP 2208H	Biobanking for Research
LMP 2209H	Practicum in Surgical Pathology V
LMP 2210H	Practicum in Surgical Pathology VI

LMP: Laboratory Medicine and Pathobiology MSc

Master of Science

Program Description

The MSc program emphasizes the development of analytical technologies, the application of basic research techniques in biochemistry, cell biology, clinical biochemistry, experimental pathology, genetics, immunology, and molecular biology to the study of mechanisms of cell and tissue injury and the pathogenesis of disease. The program also emphasizes the nature, mechanisms, therapy, and prevention of microbial diseases in humans, as well as the processes by which pathogenic microbes are spread.

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.
- 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

- Coursework.** Students must complete **1.5 full-course equivalents (FCEs)** as follows:
 - LMP 1005H *Fundamentals of Research Practice* (0.5 FCE)
 - LMP 1001H *Student Seminar I* (0.5 FCE; Credit/No Credit) and LMP 1002H *Student Seminar II* (0.5 FCE; Credit/No Credit).
- Completion of a **thesis** (RST 9999Y) under the direction of the student's supervisor, assisted by the advisory committee.
- The research content of the MSc thesis is expected to generate the equivalent of one paper published in a peer-reviewed scientific journal.
- Residence.** Students must be on campus and participating for the duration of their registration in the program.

Program Length

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

Time Limit

3 years full-time

LMP: Laboratory Medicine and Pathobiology PhD

Doctor of Philosophy

Program Description

The PhD program emphasizes the development of analytical technologies, the application of basic research techniques in biochemistry, cell biology, clinical biochemistry, experimental pathology, genetics, immunology, and molecular biology to the study of mechanisms of cell and tissue injury and the pathogenesis of disease. The program also emphasizes the nature, mechanisms, therapy, and prevention of microbial diseases in humans, as well as the processes by which pathogenic microbes are spread.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of a BSc degree.

A limited number of selected students may enter the combined degree program in [Medicine, Doctor of /Doctor of Philosophy \(MD/PhD\)](#) subject to admission into both the departmental PhD program and the MD program.

PhD Program

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.
- 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. Admission to the program is finalized when a graduate faculty member agrees to supervise the student's research and guarantees a full stipend for the student.
- 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

- Coursework.** Students must complete **1.0 full-course equivalent (FCE)** as follows:
 - LMP 1003H⁰ *Student Seminar III* (0.5 FCE; Credit/No Credit)
 - an additional 0.5 elective FCE.

- The PhD **thesis** (RST 9999Y) is completed under the direction of the candidate's supervisor, assisted by the advisory committee. 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.
- Residence.** Students must be on campus and participating for the duration of their registration in the program.

Program Length

4 years

Time Limit

6 years

⁰ *Course that may continue over a program. Credit is given when the course is completed.*

PhD Program (Transfer)

Transfer Requirements

Transfer applicants must:

- Be enrolled in the MSc program in Laboratory Medicine and Pathobiology. Excellent students with high academic standing (normally a 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.
- Successfully complete a reclassification transfer exam within 24 months of starting the MSc Program.
- Successfully complete LMP 1001H *Student Seminar I* and LMP 1005H *Fundamentals of Research Practice* at the master's level.
- Be concurrently enrolled in LMP 1002H *Student Seminar II* at the time of writing the reclassification exam.

Program Requirements

- Coursework.** Students must complete **2.5 full-course equivalents (FCEs)** as follows:
 - LMP 1005H *Fundamentals of Research Practice* (0.5 FCE; Credit/No Credit)
 - LMP 1001H *Student Seminar I* (0.5 FCE; Credit/No Credit)
 - LMP 1002H *Student Seminar II* (0.5 FCE; Credit/No Credit)
 - LMP 1003H⁰ *Student Seminar III* (0.5 FCE; Credit/No Credit)
 - an additional 0.5 elective FCE.
- The PhD **thesis** (RST 9999Y) 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.
- **Residence.** Students must be on campus and participating for the duration of their registration in the program.

Program Length

5 years

Time Limit

7 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Direct entry is available for highly qualified BSc graduates who have 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.
- 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.
- 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. Admission to the program is finalized when a graduate faculty member agrees to supervise the student's research and guarantees a full stipend for the student.

Program Requirements

- **Coursework.** Students must complete **2.5 full-course equivalents (FCEs)** as follows:
 - LMP 1005H *Fundamentals of Research Practice* (0.5 FCE; Credit/No Credit)
 - LMP 1001H *Student Seminar I* (0.5 FCE; Credit/No Credit)
 - LMP 1002H *Student Seminar II* (0.5 FCE; Credit/No Credit)
 - LMP 1003H⁰ *Student Seminar III* (0.5 FCE; Credit/No Credit)

- an additional 0.5 elective FCE.
- The PhD **thesis** (RST 9999Y) 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.
- **Residence.** Students must be on campus and participating for the duration of their registration in the program.

Program Length

5 years

Time Limit

7 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

LMP: Laboratory Medicine and Pathobiology MSc, PhD Courses

Not all courses are offered every year. Please check the departmental website for [course availability](#).

LMP 1001H	Student Seminar I (Credit/No Credit)
LMP 1002H	Student Seminar II (Credit/No Credit)
LMP 1003H ⁰	Student Seminar III (Credit/No Credit)
LMP 1005H	Fundamentals of Research Practice (Credit/No Credit)
LMP 1100H (0.25 FCE)	Cellular Imaging in Pathobiology
LMP 1101H (0.25 FCE)	Basic Concepts in Inflammatory/Autoimmune Arthritis
LMP 1102H (0.25 FCE)	Clinical Concepts in Inflammatory/Autoimmune Arthritis
LMP 1103H (0.25 FCE)	Tissue Injury, Repair, and Regeneration
LMP 1104H (0.25 FCE)	Current Understanding of Ischemic Heart Disease
LMP 1105H (0.25 FCE)	Current Understanding of Atherosclerosis
LMP 1106H (0.25 FCE)	Molecular Biology Techniques
LMP 1107H (0.25 FCE)	Bioinformatics in LMP
LMP 1108H (0.25 FCE)	Genomic Analysis in Medicine
LMP 1109H (0.25 FCE)	Advanced Concepts in Cancer Biology

LMP 1110H (0.25 FCE)	Neural Stem Cells: Brain Development and Maintenance
LMP 1200H	Neoplasia
LMP 1201H	Research Techniques in Molecular Biology and Pathobiology
LMP 1202H	Inflammation, Immunity, and Immunopathology of Atherosclerosis
LMP 1203H	Analytical Clinical Biochemistry: Basic Principles
LMP 1204H	Translational Research in Pathobiology
LMP 1205H	The Role of Genomics in the Era of Personalized Medicine
LMP 1206H	Next Generation Genomics in Clinical Medicine
LMP 1207H	Mass Spectrometry, Proteomics, and Their Clinical Applications
LMP 1208H	Molecular Clinical Microbiology and Infectious Diseases
LMP 1209H	Neurodegenerative Disease — Mechanisms, Models, and Methods
LMP 1300Y	General and Special Pathology (for Oral Pathology Residents only)

^o Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

LMP: Translational Research in the Health Sciences MHSc

Master of Health Science

Program Description

This two-year, course-based program is designed for interprofessional students from diverse backgrounds (such as medicine, life sciences, social sciences, engineering, design, and communications) who want to learn creative problem-solving skills, strategies, and competencies to translate (scientific) knowledge into innovations that improve medicine, health, and care.

Through flexible coursework, team-based, real-world translational challenges, and extensive mentorship and networking, the department facilitates self-directed collaborative “learning by doing”: students gain experience, expertise, and practical insights into development and design processes, regulatory frameworks, and translational networks and strategies to develop, lead, test, and implement innovations. The program’s mission is to challenge students to think differently so that they learn to champion change in their communities and contexts.

This cohort-based program commences in September.

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 area of study with an A– average in at least three of the four years.

- Applicants with significant research, industry, or government experience in professional health science or related social science, and/or academic research master's or PhD are also 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 May 1 for international students and June 1 for domestic students. Admission spots are limited; not all applicants who meet the prerequisites will be admitted. Applicants are screened for eligibility and short-listed applicants will be 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:
 - LMP 2300Y *Foundations in Translational Research* (1.0 FCE, Fall and Winter)
 - LMP 2320H *Overview of Methods in Practices and Contexts* (0.5 FCE; Winter)
 - LMP 2322H *Information, Media, and Communication Literacy for the Sciences* (0.5 FCE, Fall)
 - LMP 2301Y *Projects in Translational Research* (1.0 FCE, Fall and Winter)
 - LMP 2330Y* *Capstone Project in Translational Research* (2.0 FCEs, Summer)
 - Years 1 and 2:
 - 2.0 FCEs: eight modular courses (0.25 FCE each)
 - Year 2:
 - LMP 2330Y* *Capstone Project in Translational Research* (Fall and Winter)
 - 1.0 elective FCE with approval from the Program Director.

Program Length

5 sessions full-time (F/W/S/F/W)

Time Limit

3 years

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

LMP: Translational Research in the Health Sciences MHSc Courses

Required Courses

LMP 2300Y	Foundations in Translational Research
LMP 2301Y	Projects in Translational Research
LMP 2320H	Overview of Methods in Practices and Contexts
LMP 2322H	Information, Media, and Communication Literacy for the Sciences
LMP 2330Y+ (2.0 FCEs)	Capstone Project in Translational Research

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

Modular Courses

LMP 2340H (0.25 FCE)	Project Management I
LMP 2341H (0.25 FCE)	Project Management II
LMP 2342H (0.25 FCE)	Intellectual Property Fundamentals
LMP 2343H (0.25 FCE)	Applied Intellectual Property
LMP 2344H (0.25 FCE)	Translational Thinking
LMP 2345H (0.25 FCE)	Procurement, Privacy, and Regulatory Affairs
LMP 2346H (0.25 FCE)	Grant Writing
LMP 2347H (0.25 FCE)	Economics of Healthcare
LMP 2348H (0.25 FCE)	Knowledge Translation and the Community
LMP 2349H (0.25 FCE)	Student Work and Research Module (SWARM)
LMP 2350H (0.25 FCE)	Professionalism
LMP 2351H (0.25 FCE)	Leadership
LMP 2352H (0.25 FCE)	Intrapreneurship, Entrepreneurship, and Business Model Design
LMP 2353H (0.25 FCE)	Introduction to AI in Healthcare
LMP 2354H (0.25 FCE)	Hacking Network

Law

Law: Introduction

Faculty Affiliation

Law

Degree Programs

Law

LLM

- Concentrations:
 - Business Law;
 - Criminal Law;
 - Health Law, Ethics and Policy;
 - Legal Theory
- Dual Degree Programs:
 - LLB (National University of Singapore) / LLM (University of Toronto);
 - LLB (Tsinghua University) / LLM (University of Toronto);
 - LLM (University of Toronto) / JM (Tsinghua University);
 - LLM (University of Toronto) / LLM (Tsinghua University)

MSL

SJD

Global Professional Law

GPLLM

- Concentrations:
 - Business Law;
 - Canadian Law in a Global Context;
 - Innovation, Law and Technology;
 - Law of Leadership

Collaborative Specializations

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

- [Bioethics](#)
 - Law, LLM, SJD
- [Global Health \(U of T Global Scholar\)](#)
 - Law, LLM, SJD
- [Jewish Studies](#)
 - Law, LLM, MSL, SJD
- [Sexual Diversity Studies](#)
 - Law, LLM, MSL, SJD
- [Women and Gender Studies](#)
 - Law, LLM, SJD

Overview

The international reputation of the law school's faculty, their breadth of interests and approaches, and the intensive intellectual atmosphere, create outstanding opportunities for graduate students pursuing advanced degrees.

Law faculty members are some of the finest doctrinal and theoretical legal scholars in public and private law. The diversity of research interests amongst the faculty allows them to supervise graduate research in almost all areas of legal scholarship. The pluralistic academic community invites a variety of approaches to legal scholarship including, but not limited to, feminism and the law, law and economics, legal history, law and society, analytical jurisprudence, and critical legal theory. Over a third of the faculty are cross-appointed to other units — a commitment to interdisciplinary scholarship which encourages students to position their legal research within a broader, interdisciplinary context.

Strong relationships with faculty members are forged by the supervisory relationship, as well as through numerous informal opportunities to interact with faculty. The many workshops, lecture series, seminars and roundtables foster a dynamic intellectual environment. Through the Distinguished Visiting Faculty program, students have the opportunity to meet with and learn from some of the world's finest legal scholars.

In addition to the formal study program, graduate students can participate in internships through Pro Bono Students Canada and the International Human Rights Program.

Inquiries should be directed to the Graduate Program Coordinator, Graduate Program, Faculty of Law at the address below.

Contact and Address

LLM, MSL, and SJD Program Inquiries

Web: www.law.utoronto.ca/academic-programs/graduate-programs

Email: law.graduate@utoronto.ca

Telephone: (416) 978-0213

University of Toronto Faculty of Law
Graduate Programs
Falconer Hall
78 Queen's Park
Toronto, Ontario, M5S 2C5

GPLLM Program Inquiries

Web: gpllm.law.utoronto.ca

Email: gpllm@utoronto.ca

Telephone: (416) 978-1400

University of Toronto Faculty of Law
GPLLM Program
Falconer Hall
78 Queen's Park
Toronto, Ontario, M5S 2C5

Law: Graduate Faculty

Full Members

Alarie, Benjamin - LLB, AB, LLM, MA, Osler Chair in Business Law
 Anand, Anita - BA, LLB, MA, LLM
 Austin, Lisa - BA, BSc, LLB, MA
 Benson, Peter - LLB, LLM, PhD
 Brunnée, Jutta - LLM, SJD
 Chapman, Bruce - BA, LLB, PhD
 Chiao, Vincent - BA, PhD, JD
 Cossman, Brenda - LLB, LLM
 Dawood, Yasmin - BA, MA, JD, PhD, CRC
 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
 Essert, Christopher - BA, LLM, JD, 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
 Hadfield, Gillian - BA, JD, 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, Toronto Stock Exchange Chair in Capital Markets
 Macklem, Patrick - BA, LLB, LLM
 Macklin, Audrey - BSc, LLB, LLM
 Moran, Mayo - BA, LLB, LLM, SJD
 Moreau, Sophia - BA, BPhil, PhD, JD
 Niblett, Anthony - BCom, PhD, CRC
 Phillips, James - LLB, MA, PhD
 Prado, Mariana - LLB, LLM, SJD
 Reaume, Denise - BA, LLB, BCL
 Ripstein, Arthur S. - BA, MA, LLM, PhD
 Rittich, Kerry - BA, Mus, LLB, SJD
 Roach, Kent - BA, LLB, LLM
 Robertson, Adriana - BA, MA, MPH, JD, PhD
 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 (**Associate Dean, Graduate Program**)
 Trebilcock, Michael - LLB, LLM
 Valcke, Catherine - BCL, LLB, LLM, SJD
 Valverde, Mariana - BA, MA, PhD, FRSC
 Waddams, Stephen - BA, LLB, BA, LLM, PhD, SJD, Goodman/Schipper Chair
 Weinrib, Ernest - BA, LLB, PhD
 Weinrib, Lorraine - BA, LLB, LLM
 Yoon, Albert - BA, LLB, MA, PhD

Members Emeriti

Brudner, Alan S. - BA, MA, PhD
 Cook, Rebecca - BA, LLM, MA, MPA, JD, SJD
 Dickens, Bernard - LLB, LLM, PhD
 Friedland, Martin - BCom, LLB, PhD
 Nedelsky, Jennifer R - BA, MA, PhD

Associate Members

Hirschl, Ran - BA, LLB, MA, MPH, PhD, CRC
 Sanderson, Douglas - BA, LLM, JD
 Spade, Dean - BA, JD

Law: Law LLM

Master of Laws

Program Description

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 both a short or long thesis option) or coursework-only. The short and long thesis options are for law students who have demonstrated a strong potential for advanced research and original scholarship. The coursework-only option is 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:

- LLM with a Concentration in Business Law
- LLM with a Concentration in Criminal Law
- LLM with a Concentration in Health Law, Ethics, and Policy
- LLM with a Concentration in Legal Theory.

Students accepted into a concentration will receive a designation on their transcript. There are a limited number of spots available for students in each concentration, and acceptance into the concentrations will be competitive.

The program is completed on a full-time basis. Part-time registration may be considered in exceptional circumstances.

LLM Program (No Concentration): Thesis Option

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree from a recognized university, or the international equivalent of a law degree from a foreign institution. Applicants must have a minimum B+ average in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their

legal studies, i.e., during the course of their entire law degree.

- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.

Program Requirements

- Students must complete a **course of studies and a thesis** which, combined, are valued at 24 credit hours (equivalent to **6.0 full-course equivalents [FCEs]**).
- Students writing a short thesis must:
 - Complete 20 credit hours of coursework (equivalent to 5.0 FCEs); and
 - Write a thesis worth 4 credit hours (equivalent to 1.0 FCE), and approximately 45 pages or 13,000 words, under the supervision of a graduate faculty member.
- Students writing a long thesis must:
 - Complete 8 credit hours (equivalent to 2.0 FCEs) of coursework; and
 - Write a thesis worth 16 credit hours (equivalent to 4.0 FCEs), and approximately 175 pages or 52,000 words, under the supervision of a graduate faculty member.
- All thesis students must complete:
 - The mandatory graduate seminar for all LLM students who are writing a thesis: *LAW 1000H Alternative Approaches to Legal Scholarship* (3 credits, or 0.75 FCE); and
 - The mandatory graduate seminar for all LLM students: *LAW 7572H LLM Seminar* (1 credit, or 0.25 FCE).
- All coursework and the student's thesis are graded using the graduate grading scale as outlined in the *University Assessment and Grading Practices Policy*.
- The Faculty offers thesis students some flexibility regarding their thesis credits. Students writing a short thesis can choose to write a slightly longer thesis for additional credit, and students writing a long thesis can choose to write a slightly shorter thesis for fewer credits. Students who wish to reduce or increase their thesis credits should contact the graduate program coordinator before the Fall add/drop deadline.
- For those writing a thesis, the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the academic year of attendance; the thesis must be completed by July 31 of the academic year of attendance.
- With approval of the Associate Dean, Graduate Studies at the Faculty of Law, the program may be taken on a part-time basis over two years, in which case the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the second academic year of attendance; the thesis must be completed by July 31 of the second academic year of attendance.
- **Residence.** Students must be in attendance for at least two academic sessions (eight months, September to April).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
6 sessions part-time (exceptional circumstances only)

Time Limit

3 years full-time;
6 years part-time (exceptional circumstances only)

LLM Program (No Concentration): Coursework-Only Option

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree from a recognized university, or the international equivalent of a law degree from a foreign institution. Applicants must have a minimum B+ average in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their legal studies, i.e., during the course of their entire law degree.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.

Program Requirements

- Students must complete a **course of studies** valued at 28 credit hours (equivalent to **7.0 full-course equivalents [FCEs]**). In addition, students pursuing the coursework-only 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. *LAW 1000H Alternative Approaches to Legal Scholarship* and *LAW 7572H LLM Seminar* do not qualify as a designated writing requirement course.
- All students in the LLM program must complete the mandatory graduate seminar: *LAW 7572H LLM Seminar* (1 credit, or 0.25 FCE);
- All coursework is graded using the graduate grading scale as outlined in the *University Assessment and Grading Practices Policy*.
- The coursework requirements for all courses apart from the designated writing requirement course must be completed

by the Faculty's Winter sessional deadlines of the academic year of attendance; the writing requirement must be fulfilled by July 31 of the academic year of attendance.

- With approval of the Associate Dean, Graduate Studies at the Faculty of Law, the program may be taken on a part-time basis over two years, in which case the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the second academic year of attendance; the writing requirement must be completed by July 31 of the second academic year of attendance.
- Continuation in Year 2 of the part-time LLM program is subject to the Faculty of Law's determination that the student has made satisfactory progress in Year 1 of the part-time LLM.
- **Residence.** Students must be in attendance for at least two academic sessions (eight months, September to April).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
6 sessions part-time (exceptional circumstances only)

Time Limit

3 years full-time;
6 years part-time (exceptional circumstances only)

LLM Program (With a Concentration): Thesis Option

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree from a recognized university, or the international equivalent of a law degree if from a foreign institution. Applicants must have a minimum B+ average in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their legal studies, i.e., during the course of their entire law degree.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
 - No conditional offers of admission will be given based on successful completion of an English language test.
- Applicants applying to one of the four areas of concentration must substantiate their interest in and suitability for the particular area of concentration in their statement of interest, letters of reference, and research proposal. Applicants may only apply to one of the areas of

concentration. Applicants may be admitted into the LLM program without a concentration.

Program Requirements

- Students must complete a total of 24 credits (**6.0 full-course equivalents [FCEs]**) through a combination of **coursework and the thesis**. The thesis must be in the area of concentration into which the student was accepted.
- Students writing a short thesis and pursuing a concentration must:
 - Complete 20 credit hours of coursework (equivalent to 5.0 FCEs), at least 8 credits (equivalent to 2.0 FCEs) of which 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 satisfied with courses either within or outside the area of concentration.
 - Write a 4-credit hours thesis (equivalent to 1.0 FCE); that is, approximately 45 pages or 13,000 words in length, in the area of concentration under the supervision of a graduate faculty member.
- Students writing a long thesis and pursuing a concentration must:
 - Complete 8 credit hours of coursework (equivalent to 2.0 FCEs), at least 2 credits (equivalent to 0.5 FCE) of which 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 satisfied with courses either within or outside the area of concentration.
 - Write a thesis worth 16 credit hours (equivalent to 4.0 FCEs) and approximately 175 pages or 52,000 words in length, in the area of concentration under the supervision of a graduate faculty member.
- Students pursuing the concentration in Legal Theory must complete the mandatory 3-credit course LAW 7081H *Foundations of Legal Theory* (3 credits, or 0.75 FCE). This course will count towards the credits required for the area of concentration.
- All thesis students must complete:
 - The mandatory graduate seminar for all LLM students writing a thesis: LAW 1000H *Alternative Approaches to Legal Scholarship* (3 credits, or 0.75 FCE).
 - The mandatory graduate seminar for all LLM students: LAW 7572H *LLM Seminar* (1 credit, or 0.25 FCE).
- All coursework and the student's thesis are graded using the graduate grading scale as outlined in the *University Assessment and Grading Practices Policy*.
- The Faculty offers thesis students some flexibility regarding their thesis credits. Students writing a short thesis can choose to write a slightly longer thesis for additional credit, and students writing a long thesis can choose to write a slightly shorter thesis for fewer credits. Students who wish to reduce or increase their thesis credits should contact the graduate program coordinator before the Fall add/drop deadline.
- For those writing a thesis, the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the academic year of attendance; the thesis must be completed by July 31 of the academic year of attendance.
- With approval of the Associate Dean, Graduate Studies at the Faculty of Law, the program may be taken on a part-time basis over two years, in which case the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the second academic year of

attendance; the thesis must be completed by July 31 of the second academic year of attendance.

- **Residence.** Students must be in attendance for at least two academic sessions (eight months, September to April).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
6 sessions part-time (exceptional circumstances only)

Time Limit

3 years full-time;
6 years part-time (exceptional circumstances only)

LLM Program (With a Concentration): Coursework-Only Option

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree from a recognized university, or the international equivalent of a law degree from a foreign institution. Applicants must have a minimum B+ average in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their legal studies, i.e., during the course of their entire law degree.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.
- Applicants applying to one of the four areas of concentration must substantiate their interest in and suitability for the particular area of concentration in their statement of interest, and their two letters of reference. Applicants may only apply to one of the areas of concentration. Applicants may be admitted into the LLM program without a concentration.

Program Requirements

- Students must complete a **course of studies** valued at 28 credit hours (equivalent to **7.0 full-course equivalents [FCEs]**). In addition, students pursuing the coursework-only 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. LAW 1000H *Alternative Approaches to Legal Scholarship*, LAW 7572H *LLM Seminar*, and LAW 7077H *Introduction to the Canadian Legal System* do not qualify as a designated writing requirement course.
- At least 12 of the credits (equivalent to 4.0 FCEs) must be completed from a list of courses in the area of concentration into which the student was accepted. A list of eligible courses will be provided annually on the program website.
- Students pursuing the concentration in Legal Theory must complete the mandatory 3-credit course, LAW 7081H *Foundations of Legal Theory* (3 credits, or 0.75 FCE). This course will count towards the credits required for the area of concentration.
- The designated writing requirement course must be in the area of concentration.
- All students in the LLM program must complete the mandatory graduate seminar: LAW 7572H *LLM Seminar* (1 credit, or 0.25 FCE).
- All coursework is graded using the graduate grading scale as outlined in the *University Assessment and Grading Practices Policy*.
- The coursework requirements for all courses apart from the designated writing requirement course must be completed by the Faculty's Winter sessional deadlines of the academic year of attendance; the writing requirement must be fulfilled by July 31 of the academic year of attendance.
- With approval of the Associate Dean, Graduate Studies at the Faculty of Law, the program may be taken on a part-time basis over two years, in which case the coursework requirements must be completed by the Faculty's Winter sessional deadlines of the second academic year of attendance; the writing requirement must be completed by July 31 of the second academic year of attendance.
- Continuation in Year 2 of the part-time LLM program is subject to the Faculty of Law's determination that the student has made satisfactory progress in Year 1 of the part-time LLM studies.
- **Residence.** Students must be in attendance for at least two academic sessions (eight months, September to April).

Program Length

3 sessions full-time (typical registration sequence: F/W/S);
6 sessions part-time (exceptional circumstances only)

Time Limit

3 years full-time;
6 years part-time (exceptional circumstances only)

Dual Degree Program: Bachelor of Laws (National University of Singapore) / Master of Laws (University of Toronto)

Program Description

This dual degree program is offered as part of the Master of Laws (LLM)'s coursework-only option, with or without a concentration. Students are not eligible to take the thesis option.

Students complete three years of a Bachelor of Laws (LLB) from the National University of Singapore (NUS), and in Year 4 complete the LLM degree at the University of Toronto. Students complete the LLB and LLM degrees in four years rather than the five years it would take to attain them separately. See the LLM coursework requirements (with or without a concentration) above.

Upon successful completion of the degree requirements of both programs, students receive a Bachelor of Laws degree and a Master of Laws degree.

Contact

Bachelor of Laws Program
Faculty of Law, National University of Singapore
Email: lawUGadm@nus.edu.sg

Master of Laws Program
Faculty of Law, University of Toronto
Email: law.graduate@utoronto.ca

Application Process

- Initial consideration for admission to the dual degree program will be based on the applicant's performance during the first three terms of the NUS LLB program.
- All offers of admission to the dual degree program will be conditional upon successful completion of all Year 1, 2, and 3 requirements of the LLB program before starting the LLM program.

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.
- Successful completion of the first three years of the NUS LLB program, with the equivalent of a B+ average. Preference will be given to those who maintain this average throughout their legal studies.
- Applicants applying to one of the four areas of concentration must substantiate their interest in and suitability for the particular area of concentration in their statement of interest, and their two letters of reference. Applicants may only apply to one of the areas of concentration. Applicants may be admitted into the LLM program without a concentration.
- **Residence.** Students must be in attendance for at least two academic sessions (eight months, September to April).

Dual Degree Program: Bachelor of Laws (Tsinghua University) / Master of Laws (University of Toronto)

Program Description

This dual degree program is offered as part of the Master of Laws (LLM)'s coursework-only option, with or without a concentration. Students are not eligible to take the thesis option.

Students complete two years of a Bachelor of Laws (LLB) from Tsinghua University, and in Year 3 complete the LLM degree at the University of Toronto.

Students complete the LLB and LLM degrees in four years rather than the five years it would take to attain them separately. See the LLM coursework requirements (with or without a concentration) above.

Upon successful completion of the degree requirements of both programs, students receive an Bachelor of Laws degree and a Master of Laws degree.

Contact

Bachelor of Laws Program
Law School, Tsinghua University
Email: to be confirmed

Master of Laws Program
Faculty of Law, University of Toronto
Email: law.graduate@utoronto.ca

Dual Degree Program: Master of Laws (University of Toronto) / Juris Master (Tsinghua University)

Program Description

This dual degree program is offered as part of the Master of Laws (LLM)'s coursework-only option, with or without a concentration. Students are not eligible to take the thesis option.

Students complete the LLM and Juris Master (JM) degrees in three years and one session rather than the four years it would take to attain them separately. See the LLM coursework requirements (with or without a concentration) above.

- Years 1 and 2: students register in the Tsinghua University JM program.
- Fall session of Year 3: students register in the University of Toronto LLM program.
- Winter session of Year 3: students return to the Tsinghua University JM program.
- Fall session of Year 4: students register in the University of Toronto LLM program and complete the dual degree by the end of that session.

Upon successful completion of the degree requirements of both programs, students receive a Master of Laws degree and a Juris Master degree.

Contact

Juris Master Program
Law School, Tsinghua University
Email: to be confirmed

Master of Laws Program
Faculty of Law, University of Toronto
Email: law.graduate@utoronto.ca

Dual Degree Program: Master of Laws (University of Toronto) / Master of Laws (Tsinghua University)

Program Description

This dual degree program is offered as part of the Master of Laws (LLM)'s coursework-only option, with or without a concentration. Students are not eligible to take the thesis option.

Students complete the two LLM degrees in two years and one session rather than the three years it would take to attain them separately. See the LLM coursework requirements (with or without a concentration) above.

- Year 1: students register in the Tsinghua University LLM program.
- Fall session of Year 2: students register in the University of Toronto LLM program.
- Winter session of Year 2: students return to the Tsinghua University LLM program.
- Fall session of Year 3: students register in the University of Toronto LLM program and complete the dual degree program by the end of that session.

Upon successful completion of the degree requirements of both programs, students receive the University of Toronto and Tsinghua University Master of Laws degree.

Contact

Master of Laws Program
Law School, Tsinghua University
Email: to be confirmed

Master of Laws Program
Faculty of Law, University of Toronto
Email: law.graduate@utoronto.ca

Law: Law MSL

Master of Studies in Law

Program Description

The Master of Studies in Law (MSL) program is designed for scholars with no prior training in law who wish to acquire a legal education and knowledge of law in order to add a legal dimension to scholarship in their own discipline.

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.
- Applicants must have completed at least a master's degree, and preferably a doctorate, from a recognized university with a demonstrated high level of scholarship in a discipline related to law. Applicants must have a least a B+ average in their final year of study. Preference will be given to applicants who have maintained this average throughout their 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 show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.

Program Requirements

- MSL students must pursue a **course of studies** approved by the Faculty.
 - The course of studies will comprise at least 28 credit hours (7.0 full-course equivalents [FCEs]), and not more than 32 credit hours (equivalent to 8.0 FCEs), and will include at least three of the following subjects: contracts, torts, property, criminal law, constitutional law, and civil procedure.
 - Students must complete a research project of an interdisciplinary nature during their studies at the Faculty of Law. The project must be completed in the context of one of the courses that students are completing for credit.
 - A mandatory graduate seminar: LAW 1000H *Alternative Approaches to Legal Scholarship* (3 credits, or 0.75 FCE).
 - **In no circumstance will courses taken in the MSL program be accredited for the Juris Doctor (JD) program.**
- **Residence.** Students must be in full-time attendance for two academic sessions (eight months, September to April).

Program Length

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

Time Limit

3 years full-time

Law: Law SJD

Doctor of Juridical Science

Program Description

The Doctor of Juridical Science (SJD) is a thesis degree program for outstanding law students seeking to pursue careers in teaching, policy, and research. Students receive a guaranteed funding package for three years. Inquiries should be directed to the Graduate Program Coordinator, Graduate Program, Faculty of Law at the address above.

Applicants may enter the SJD program via one of two routes: 1) following completion of an appropriate Bachelor of Laws or Juris Doctor degree and a Master of Laws; or 2) direct entry following completion of an appropriate Bachelor of Laws or Juris Doctor degree.

SJD Program

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree and a Master of Laws degree from a recognized university, or the equivalent of each degree from an international institution. Applicants must have a minimum B+ average in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their legal 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 show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on the writing and speaking sections.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.

Program Requirements

- **Coursework.** Students must complete the mandatory graduate seminar LAW 1000H *Alternative Approaches to Legal Scholarship* (3 credits, or 0.75 full-course equivalents [FCEs]).
 - 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. The student's supervisory committee (established by the student and approved by the Associate Dean of Graduate Studies at the Faculty of 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 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 (the "area exam"). Unless approved by the Associate Dean of Graduate of Graduate Studies, a student must satisfy the area requirement by the end of Year 1 of registration.
- **Research and writing.** 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, including through the satisfaction of the area exam.
- **Year 2 presentation.** At the end of Year 2 of registration, students must present an abstract of their work in progress or a draft chapter to an audience of their peers and interested faculty. The purpose of the meeting is to provide the student with a forum to collect feedback from a broad audience.
- **Annual meetings.** Students must meet with their entire supervisory committee at least once a year.
- **Thesis.** Following completion of the requirements above, 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.
- **Residence.** Students must be in full-time attendance for at least two academic sessions (eight months):
 - September to April for those starting the program in September or
 - January to April and September to December for those starting the program in January.

Program Length

3 years

Time Limit

5 years

SJD Program (Direct-Entry)

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.
- Applicants must have obtained a Bachelor of Laws or Juris Doctor degree from a recognized university, or the equivalent of a law degree from an international institution. A minimum A- average is required in the final year of their legal studies. Preference will be given to applicants who maintain this average throughout their legal studies, i.e., during the course of their entire law degree.
- The Associate Dean, Graduate Studies at the Faculty of Law has the discretion to permit direct entry into the SJD following completion of the Bachelor of Laws or Juris Doctor degree where the Graduate Committee is satisfied that the applicant's law record demonstrates excellent potential for independent legal research and writing at an advanced level.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - The Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on the writing and speaking sections.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English language test.

Program Requirements

- **Coursework.** Students must complete at least 8 credit hours (2.0 full-course equivalents [FCEs]) including the mandatory graduate seminar: LAW 1000H *Alternative Approaches to Legal Scholarship* (3 credits, or 0.75 FCE).
 - All coursework shall be subject to the approval of the Associate Dean, Graduate Studies at the Faculty of 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. The student's supervisory committee (established by the student and approved by the Associate Dean of Graduate Studies at the Faculty of 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 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 (the "area exam"). Unless approved by the Associate Dean of Graduate Studies, a student must satisfy the area requirement by the end of Year 1 of registration.
- **Research and writing.** 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, including through the satisfaction of the area exam.

- **Year 2 presentation.** At the end of Year 2 of registration, students must present an abstract of their work in progress or a draft chapter to an audience of their peers and interested faculty. The purpose of the meeting is to provide the student with a forum to collect feedback from a broad audience.
- **Annual meetings.** Students must meet with their entire supervisory committee at least once a year.
- **Thesis.** 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 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.
- **Residence.** Students must be in full-time attendance for at least two academic sessions (eight months):
 - September to April for those starting the program in September or
 - January to April and September to December for those starting the program in January.

Program Length

5 years

Time Limit

6 years

Law: Law LLM, MSL, SJD Courses

LAW 1000H	Alternative Approaches to Legal Scholarship
LAW 1001Y	First Year: Contracts Law (MSL only)
LAW 1002Y	Contracts
LAW 1003Y	First Year: Criminal Law (MSL only)
LAW 1004Y	Criminal Law
LAW 1005Y	First Year: Property Law (MSL only)
LAW 1006Y	Property
LAW 1007Y	First Year: Torts Law (MSL only)
LAW 1008Y	Torts
LAW 1009Y	First Year: Constitutional Law (MSL only)
LAW 1010Y	Constitutional Law
LAW 1011Y	First Year: Constitutional Law (MSL only)
LAW 2001H	Advanced Contracts: The Law of Contractual Interpretation
LAW 2002H	Advanced Corporate Law and Securities Regulation
LAW 2003H	Advanced Labour Law: Bargaining Rights and Following Rights in a Global Economy
LAW 2005H	The Art of the Deal
LAW 2007H	Bankruptcy Law
LAW 2007Y	Bankruptcy and Insolvency Law

LAW 2008H	Business Organizations
LAW 2009Y	Canadian Income Tax Law
LAW 2010H	Class Action Law
LAW 2011H	Climate Change Law
LAW 2013H	Competition Law and Intellectual Property
LAW 2014H	Competition Policy
LAW 2015H	Contested Corporate Transactions
LAW 2017Y	Corporate Income Tax
LAW 2018H	Corporate Transactions
LAW 2019H	Corporations, Individuals, and the State
LAW 2020H	Digital Content and the Creative Economy
LAW 2021H	Economic and Social Regulation
LAW 2022H	Entertainment Law
LAW 2023H	Environmental Law
LAW 2024Y	Evidence
LAW 2026H	Franchise and Distribution Law
LAW 2027H	From Blueprints to Buildings: Legal Issues in the Construction Industry
LAW 2029H	Governing Governance: Legal Institutions and Corporate Performance in Comparative Perspective
LAW 2033H	Intensive: Key Concepts in Trademark Law
LAW 2035H	International Commercial and Investor-State Arbitration
LAW 2036H	International Investment Law
LAW 2037H	International Taxation
LAW 2038H	International Trade Regulation
LAW 2039H	Investment and Growth in Emerging Markets
LAW 2040Y	Labour and Employment Law
LAW 2042H	Law of Good Governance and Ethics in Government and Business
LAW 2044H	Legal History of Money
LAW 2045H	Natural Resources and Energy Law
LAW 2046H	Negotiation
LAW 2047H	Patent and Trade Secrets Law
LAW 2048H	New Directions in Energy Regulation
LAW 2049H	Principle and Policy in Contract Law
LAW 2051H	Real Estate Law
LAW 2053Y	Secured Transactions
LAW 2054H	Securities Law in Adversarial Setting
LAW 2055H	The Supreme Court of Canada: A Unique and Comprehensive View
LAW 2056H	Shareholder Activism
LAW 2057H	Sustainability and Corporate Social Responsibility
LAW 2059H	Venture Capital Financing
LAW 2060H	Workshop: Innovation Law and Policy
LAW 2061H	Intensive Course: Corporations, Individuals, and the State
LAW 2062H	Applied Corporate Law
LAW 2063H	Banking, Negotiable Instruments, and Payment Mechanisms
LAW 2064H	Fundamental Themes in Securities Litigation Practice
LAW 2065H	Innovation, Intellectual Property, and the Internet
LAW 2066H	Law of International Business and Finance Transactions
LAW 2067H	Powering the Green Economy: New Directions in Energy Regulation
LAW 2068H	The Private Sector in Economic Development

LAW 2069H	Regulation of Financial Institutions
LAW 2070Y	Intellectual Property: Copyright, Trademark, and Patent
LAW 2072H	Data and Governance
LAW 2075H	Intensive Course: Consumer Contracts in the Information Society: A Comparative Overview
LAW 2076H	Securities Litigation: The Public and Private Enforcement of Securities Law
LAW 2085Y	Trusts
LAW 3001H	Aboriginal Peoples and Canadian Criminal Justice
LAW 3002H	Aboriginal Peoples and Canadian Criminal Justice Practicum
LAW 3003H	Advanced Constitutional Law: Comparative Remedial and Security Issues
LAW 3004H	Advanced Criminal Evidence
LAW 3005H	Advanced Criminal Procedure and Charter Issues
LAW 3007H	Comparative Anti-terrorism and National Security Law
LAW 3008H	Comparative Criminal Law
LAW 3012H	Criminal Law Theory
LAW 3013Y	Criminal Procedure
LAW 3014H	Criminalization: Use and Abuse
LAW 3015H	Criminalization in Historical and Theoretical Perspective
LAW 3017H	Financial Crimes
LAW 3018H	Forensic Evidence: Science, Medicine, and the Law
LAW 3019H	History of Crime and Punishment
LAW 3020H	Homicide
LAW 3021H	Issues in Criminal Justice
LAW 3023H	Mentally Disordered Accused
LAW 3025H	Sentencing and Penal Policy
LAW 3026H	Women, Violence, and the Law
LAW 3027H	Wrongful Convictions
LAW 3028H	Youth Criminal Justice
LAW 3029H	Crime and Punishment: Mandatory Minimums, the Death Penalty, and Other Current Debates
LAW 3030H	International Criminal Law
LAW 3031H	Perspectives on Crime and Law
LAW 3032H	Intensive Course: "Black Lives Matter" and Criminal Procedure: Race and the Fourth Amendment
LAW 3033H	Law and Society: Theoretical Perspectives
LAW 3034H	Homelessness
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
LAW 4012H	Intellectual Property Law
LAW 4013H	Economic and Social Regulation 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 4019H	Anti-Corruption Law: International, Domestic, and Practical Perspectives
LAW 5002H	Advanced Private Law
LAW 5003H	Authorship and Copyright: Theory and History
LAW 5004H	Civil Law
LAW 5005H	Comparative Constitutional Law and Politics
LAW 5006H	Comparative Law Theory
LAW 5007H	Workshop: Contemporary Problems in Legal Theory
LAW 5008H	Crime and Punishment
LAW 5011H	Critical Theory and Global Law: Resisting Economic Globalization
LAW 5012H	Empirical Studies Seminar
LAW 5014H	History and Theory of the Common Law
LAW 5017H	Ethics, Value Pluralism, and International Justice
LAW 5018H	Property Theory
LAW 5020H	Trademark Theory
LAW 5021H	Introduction to Contemporary Legal Theory
LAW 5022H	Introduction to Islamic Law
LAW 5024H	Judgement in Law and Politics
LAW 5025H	Kant's Philosophy of Law
LAW 5026H	The Law of Democracy
LAW 5027H	Law and Literature
LAW 5028H	Law and Multiculturalism
LAW 5029H	Law, Religion, and Public Discourse
LAW 5030H	Legal Archaeology: Studies in Cases in Context
LAW 5032H	Modern Political Trials
LAW 5033H	Peoples and Minorities in International Law
LAW 5034H	Political Justice and Liberal Democracy
LAW 5037H	Religion and the Liberal State: The Case of Islam
LAW 5039H	Restitution
LAW 5040H	Rights
LAW 5042H	Theories of Equality
LAW 5043H	Theory of Contract Law
LAW 5044H	Theory of Private Law: Selected Topics and Texts
LAW 5045H	Critical Analysis of Law Workshop
LAW 5047H	Law and Economics Workshop Seminar
LAW 5048H	From Patriarchy to Equal Citizenship
LAW 5049H	History and Theory of International Law
LAW 5050H	Introduction to Legal Philosophy
LAW 5051H	Workshop: Legal History Seminar
LAW 5052Y	Political Theory of Hegel
LAW 5053H	Workshop: Legal Theory
LAW 5054H	Intensive Course: Constitutional Theory
LAW 5055H	Intensive Course: Purposive Interpretation in Law
LAW 5056H	Intensive Course: The Adversarial Trial: Theory and Critique
LAW 5057H	John Rawls' Theory of Justice: An Introduction
LAW 5058H	Law, Religion, and Democracy
LAW 5059H	Philosophical Approaches to Equality and Discrimination
LAW 5060H	Sanctity of Contracts in a Secular Age

LAW 6001H	Contemporary Issues in Health Law and Policy
LAW 6002H	Governance of Pharmaceuticals in the International Context
LAW 6003Y	Health Law and Bioethics
LAW 6004H	Comparative Health Systems Law and Policy
LAW 6005H	Intellectual Property, Medicine, and Health
LAW 6006H	Public Health Law
LAW 6007H	Patent Law for Life Sciences
LAW 6010H	Scientific Evidence: Its Use and Abuse in Law
LAW 6012H	Reproductive and Sexual Health Law
LAW 6013H	Law and Policy of Biotechnology
LAW 6015Y	Administrative Law
LAW 6019H	Privacy Law
LAW 6020H	International Intellectual Property Law
LAW 6021H	Women's Rights in Transnational Law
LAW 6023H	International Human Rights Law
LAW 6024H	Human Rights and Global Justice
LAW 6025H	Law and Policy of Public Private Partnerships
LAW 6026H	Law, Institutions, and Development
LAW 6029Y	International Human Rights Clinic
LAW 6030H	Law of Mental Health
LAW 6031H	Occupational Health and Safety
LAW 6032H	Health Systems Law and Policy
LAW 6042H	Human Rights and Their Critics
LAW 7000Y	Securities Regulation
LAW 7001H	Legal Process Professionalism and Ethics
LAW 7002H	Advanced Civil Procedure
LAW 7003Y	Administrative Law
LAW 7004H	Admiralty Law
LAW 7005Y	Trial Advocacy
LAW 7006H	Advanced Torts
LAW 7007H	Tax Law and Policy Workshop
LAW 7008H	Private International Law
LAW 7009H	Perspectives on Law
LAW 7010H	Broadcasting Law and Policy
LAW 7011H	Telecommunications and Internet Law
LAW 7012H	Community Planning
LAW 7013H	International Environmental Law
LAW 7014H	Advanced Property Law
LAW 7015Y	Charter Litigation 101
LAW 7016H	Fiduciary Law
LAW 7017H	Trusts
LAW 7018Y	Family Law
LAW 7019H	Finance and Accounting in Business Law
LAW 7020H	Introduction to Animal Law
LAW 7021H	Sports Law
LAW 7022H	Human Rights as Law, Ethics, and Politics
LAW 7023H	Public Sector Labour Law
LAW 7024H	Citizenship: Inside and Out
LAW 7025H	Citizenship, Immigration, and Globalization
LAW 7026H	Labour Law Writers Workshop
LAW 7027H	Introduction to the Legal System of the People's Republic of China
LAW 7028H	Municipal Plan and Environmental Law
LAW 7029H	Remedies
LAW 7030H	Issues in Aboriginal Law and Policy
LAW 7031H	Legal Ethics and Lawyer Regulation Intensive

LAW 7032H	Idea to Legislation: Policy and Legislative Change
LAW 7033H	Perspectives on Civil Litigation, Procedure, and Professionalism
LAW 7034H	Education Law
LAW 7035H	Advanced Legal Research, Analysis, and Writing
LAW 7036H	Foreign Affairs and the Canadian Constitution
LAW 7037H	Litigation and Social Change
LAW 7038H	Advanced Family Law: Resolving Family Law Case
LAW 7039H	Advanced Aboriginal Studies
LAW 7040H	Constitutional Law of the U.S.
LAW 7041Y	Feminist Theory
LAW 7042Y	Clinical Legal Education: Health Equity and Law Clinic
LAW 7043H	Proportionality, Constitutional Rights, and Their Limitations
LAW 7044H	Wills and Estate Planning
LAW 7045H	Exploring the Intersections of Law and Social Work
LAW 7046H	Freedom of Expression and Press
LAW 7047H	Introduction to Law and Development
LAW 7048H	Canadian Legal History: The Development of Legal Doctrine in Ontario Court of Appeal
LAW 7049H	Legal Ethics
LAW 7050H	Comparative Indigenous Law
LAW 7051H	Media and Defamation Law
LAW 7052Y	Aboriginal Peoples and Canadian Law
LAW 7053H	Intensive Course: Who Belongs? Dilemmas of Citizenship and Immigration
LAW 7054H	Copyright Law
LAW 7055Y	Copyright, Trademark, and Patent Law
LAW 7056H	International Criminal Law
LAW 7057H	Private Pensions, Public Responsibilities, and Regulation of the Canadian Pension System
LAW 7058H	Canadian Legal Methods and Writing
LAW 7059H	Contemporary Problems in Legal Theory
LAW 7060Y	Discrimination Law
LAW 7061Y	Children and Families
LAW 7062Y	Constitutional Courts and Constitutional Rights
LAW 7063H	Statutes and Statutory Interpretation
LAW 7064H	Adhesion Contracts: The Perils of Clicking "I Agree"
LAW 7065H	Advanced Advocacy: Problems and Techniques
LAW 7066H	Canadian Migration Law
LAW 7067H	Class Actions Practice
LAW 7068H	Judicial Decision-Making
LAW 7069H	Internet Law and Governance
LAW 7070H	Economic Analysis of Law
LAW 7071H	Youth and the Law
LAW 7072H	Constitutional Design for Divided Societies: Theory and Cases
LAW 7073H	Student Scholarship Workshop
LAW 7074H	Alternative Dispute Resolution in the Legal Environment
LAW 7075H	Ethics in the Business Law Setting
LAW 7076H	Refugee Law
LAW 7077H	Introduction to the Canadian Legal System
LAW 7078H	Law of Forced Migration
LAW 7079H	Litigation and Dispute Resolution

LAW 7080H	Clinical Legal Education Connect Legal
LAW 7081H	Foundations of Legal Theory
LAW 7082H	International Humanitarian Law (the Law of Armed Conflict)
LAW 7083H	Law and Globalization Workshop
LAW 7084H	Capstone Course: Intersection Between Criminal and Family Law: Challenges of Concurrent Proceedings
LAW 7085H	Capstone Course: the Role of the Judge
LAW 7086H	Refugee Rights
LAW 7087H	Practice and Theory of Indigenous Law
LAW 7088H	Geographies of International Law
LAW 7089H	Intensive Course: Brecht: A Case Study in Law and Literature
LAW 7090H	Legal Innovation
LAW 7091H	Values and Models of Federalism in a Comparative Perspective
LAW 7092H	Intensive Course: International Intellectual Property and Development
LAW 7093H	Advanced Constitutional Law
LAW 7094Y	Public International Law
LAW 7103H	Appeals: Principles and Practice
LAW 7104H	Indigenous Legal Traditions and the Imperial Response
LAW 7105H	Indigenous People and Canadian Courts: Advocacy, Evidentiary, and Ethical Issues
LAW 7109H	Intensive Course: Comparative Constitutional Law of Free Expression
LAW 7110H	Intensive Course: Constitutional Design in Post Conflict Democracies
LAW 7111H	Intensive Course: Feminisms and Pornography, c 1975-1995
LAW 7114H	The Legal Profession in Popular Culture
LAW 7115H	Intensive Course: snuw'yulh: Indigenous Legal Traditions in the Coast Salish World
LAW 7116H	Intensive Course: The Rabbinic Idea of Law
LAW 7120H	Intensive Course: Anishinaabe Law in Toronto: Understanding Constitutionalism in Context
LAW 7572H	LLM Seminar
LAW 8000Y	Thesis
LAW 8001H	Directed Research Program (Graduate Students Only)
CHL 5704H	International Human Rights Law and Global Health: The Right to Health in Theory and Practice
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 (Credit/No Credit)
RSM 2120H	Health Policy and Health Care Markets

Law: Global Professional Law GPLLM

Global Professional Master of Laws

Program Description

The Global Professional Master of Laws (GPLLM) program is designed for lawyers, business executives, and professionals from all industries. It is completed through an intensive 12-month delivery model with classes offered in the evenings and on weekends.

The GPLLM offers the following concentrations:

- Business Law
- Canadian Law in a Global Context
- Innovation, Law and Technology
- Law of Leadership

Concentration: Business Law

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.
- Applicants must have completed a Juris Doctor (JD), Bachelor of Laws (LLB), or a bachelor's degree (in law or another discipline) from a recognized university, with a minimum B+ average or equivalent in their final year of study.
- Applicants must demonstrate a minimum of three years of work experience.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English-language test.

Program Requirements

- **Coursework: 30 credits (7.5 full-course equivalents [FCEs]),** as follows:
 - One required 3-credit course (equivalent to 0.75 FCE) as follows:
 - LAW 4001H *Law and Business in a Global Economy*
 - 12 credits (equivalent to 3.0 FCEs) consisting of four courses within this concentration worth 3 credits each (0.75 FCE total) from this list:
 - 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 4011H *Law and Policy of Public Private Partnerships*
- LAW 4012H *Intellectual Property Law*
- LAW 4013H *Economic and Social Regulation 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 4018H *Foundations of Legal Theory*
- LAW 4019H *Anti-Corruption Law: International, Domestic, and Practical Perspectives*
- LAW 4028H *Blockchain, Digital Assets, and the Law*
- LAW 4032H *Intellectual Property and Strategy*
- LAW 4036H *Applied Contract Law*
- LAW 4053H *Law and Regulation of Banks and Financial Institutions*

- 15 credits (equivalent to 3.75 FCEs) consisting of five courses worth 3 credits each (0.75 FCE total) from any concentration. Not all courses will necessarily be available every year. The program reserves the discretion to decline student requests to complete certain electives based on course enrolment or otherwise.

Program Length

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

Time Limit

3 years full-time

Concentration: Canadian Law in a Global Context

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.
- Applicants must have completed a Juris Doctor (JD), Bachelor of Laws (LLB), or a bachelor's degree (in law or another discipline) from a recognized university, with a minimum B+ average or equivalent in their final year of study
- A minimum of two years of full-time work experience is strongly preferred but not required.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: overall minimum score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: overall minimum score of 100/120, and 24/30 on each section.

- The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English-language test.

Program Requirements

- **Coursework: 30 credits (7.5 full-course equivalents [FCEs]),** as follows:
 - One required 3-credit course (equivalent to 0.75 FCE) as follows:
 - LAW 4010H *Foundations of Canadian Law*
 - 12 credits (equivalent to 3.0 FCEs) consisting of four seminar courses within this concentration worth 3 credits each (0.75 FCE total) from this list:
 - LAW 4007H *Canadian Administrative Law*
 - LAW 4008H *Canadian Constitutional Law*
 - LAW 4009H *Canadian Criminal Law*
 - LAW 4017H *Professional Responsibility*
 - LAW 4020H *Property Law*
 - LAW 4021H *Tort Law*
 - LAW 4022H *Contract Law*
 - LAW 4023H *Business Organizations*
 - LAW 4024H *Applied Legal Research and Writing*
 - LAW 4051H *Evidence Law*
 - 15 credits (3.75 FCEs) consisting of five courses worth 3 credits each (0.75 FCE) from any concentration. Not all elective courses will necessarily be available every year. The program reserves the discretion to decline student requests to complete certain electives based on course enrolment or otherwise.

Program Length

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

Time Limit

3 years full-time

Concentration: Innovation, Law and Technology

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.
- Applicants must have completed a Juris Doctor (JD), Bachelor of Laws (LLB), or a bachelor's degree (in law or another discipline) from a recognized university, with a minimum B+ average or equivalent in their final year of study
- A minimum of two years of full-time work experience is strongly preferred but not required.
- Applicants should demonstrate an interest in technology and entrepreneurship in their application materials.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - Test of English as a Foreign Language (TOEFL) with the following minimum scores:

- Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
- Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
- The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
 - No conditional offers of admission will be given based on successful completion of an English-language test.

Program Requirements

- **Coursework: 30 credits (7.5 full-course equivalents [FCEs]),** as follows:
 - One required 3-credit course (equivalent to 0.75 FCE) as follows:
 - LAW 4026H *The Law of Disruptive Technologies and Artificial Intelligence*
 - 12 credits (equivalent to 3.0 FCEs) consisting of four courses within this concentration worth 3 credits each (0.75 FCE total) from this list:
 - LAW 4027H *Legal Technology and Informatics*
 - LAW 4028H *Blockchain, Digital Assets, and the Law*
 - LAW 4029H *Computational Law*
 - LAW 4030H *Financing Technological Innovation*
 - LAW 4031H *Cybersecurity and Data Protection in a Global Information Economy*
 - LAW 4032H *Intellectual Property and Strategy*
 - LAW 4033H *Design Thinking*
 - LAW 4034H *Launching Technology Ventures*
 - LAW 4035H *The Internet of Things*
 - LAW 4046H *Privacy and Data Governance*
 - LAW 4047H *The Legal Challenges of Digital Environments*
 - LAW 4048H *Health, Innovation, and the Law*
 - LAW 4052H *Law of Software Development and Commercialization*
 - LAW 4055H *Taxonomy of Innovation: Solving Business Problems and Reducing Legal Friction*
 - 15 credits (equivalent to 3.75 FCEs) consisting five courses worth 3 credits each (0.75 FCE total) from any concentration. Not all elective courses will necessarily be available every year. The program reserves the discretion to decline student requests to complete certain electives based on course enrolment or otherwise.

Program Length

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

Time Limit

3 years full-time

Concentration: Law of Leadership

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.

- Applicants must have completed a Juris Doctor (JD), Bachelor of Laws (LLB), or a bachelor's degree (in law or another discipline) from a recognized university, with a minimum B+ average or equivalent in their final year of study
- A minimum of three years of full-time work experience is required.
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must show evidence of having taken one of the following tests:
 - Test of English as a Foreign Language (TOEFL) with the following minimum scores:
 - Paper-based TOEFL: minimum overall score of 600, and 5 on the Test of Written English (TWE)
 - Internet-based TOEFL: minimum overall score of 100/120, and 24/30 on each section.
 - The International English Language Testing System (IELTS), Academic module, with an overall score of 7.5 with at least 7.0 in each component.
- No conditional offers of admission will be given based on successful completion of an English-language test.

Program Requirements

- **Coursework: 30 credits (7.5 full-course equivalents [FCEs]),** as follows:
 - One required 3-credit course (equivalent to 0.75 FCE) as follows:
 - LAW 4050H *Perspectives on Leadership and the Law*
 - 12 credits (equivalent to 3.0 FCEs) consisting of four courses within this concentration worth 3 credits each (0.75 FCE) from this list:
 - LAW 4016H *Corporate Social Responsibility, Ethics, and the Law*
 - LAW 4036H *Applied Contract Law*
 - LAW 4037H *Procedural Fairness in Decision Making*
 - LAW 4038H *Dispute Resolution and Negotiations*
 - LAW 4039H *Law of the Workplace*
 - LAW 4040H *Harassment, Discrimination, and the Duty to Accommodate*
 - LAW 4041H *Health Law*
 - LAW 4042H *Procurement Law*
 - LAW 4043H *Privacy and Expression in the Digital Age*
 - LAW 4044H *Education Law*
 - LAW 4045H *Executive Compensation*
 - LAW 4049H *Privacy and Freedom of Information*
 - LAW 4054H *Management and Resolution of Legal Disputes*
 - 15 credits (equivalent to 3.75 FCEs) consisting of five courses worth 3 credits each (0.75 FCE) from any concentration. Not all elective courses will necessarily be available every year. The program reserves the discretion to decline student requests to complete certain electives based on course enrolment or otherwise.

Program Length

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

Time Limit

3 years full-time

Law: Global Professional Law GPLLM Courses

All courses are offered in modules. A module will be approximately four months in length. Courses will be offered during the evening and on the weekend. A large portion of the learning for the modules will take place outside of class through carefully designed reading, assignments, projects, and group study.

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
LAW 4012H	Intellectual Property Law
LAW 4013H	Economic and Social Regulation 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 4019H	Anti-Corruption Law: International, Domestic, and Practical Perspectives
LAW 4020H	Property Law
LAW 4021H	Tort Law
LAW 4022H	Contract Law
LAW 4023H	Business Organizations
LAW 4024H	Applied Legal Research and Writing
LAW 4026H	The Law of Disruptive Technologies and Artificial Intelligence
LAW 4027H	Legal Technology and Informatics
LAW 4028H	Blockchain, Digital Assets, and the Law
LAW 4029H	Computational Law
LAW 4030H	Financing Technological Innovation
LAW 4031H	Cybersecurity and Data Protection in a Global Information Economy
LAW 4032H	Intellectual Property and Strategy
LAW 4033H	Design Thinking
LAW 4034H	Launching Technology Ventures
LAW 4035H	The Internet of Things
LAW 4036H	Applied Contract Law
LAW 4037H	Procedural Fairness in Decision Making
LAW 4038H	Dispute Resolution and Negotiations
LAW 4039H	Law of the Workplace

LAW 4040H	Harassment, Discrimination, and the Duty to Accommodate
LAW 4041H	Health Law
LAW 4042H	Procurement Law
LAW 4043H	Privacy and Expression in the Digital Age
LAW 4044H	Education Law
LAW 4045H	Executive Compensation
LAW 4046H	Privacy and Data Governance
LAW 4047H	The Legal Challenges of Digital Environments
LAW 4048H	Health, Innovation, and the Law
LAW 4049H	Privacy and Freedom of Information
LAW 4050H	Perspectives on Leadership and the Law
LAW 4051H	Evidence Law
LAW 4052H	Law of Software Development and Commercialization
LAW 4053H	Law and Regulation of Banks and Financial Institutions
LAW 4054H	Management and Resolution of Legal Disputes
LAW 4055H	Taxonomy of Innovation: Solving Business Problems and Reducing Legal Friction
LAW 4056H	Crisis Management and Leadership
LAW 4057H	Cannabis Law and Regulation
LAW 4058H	Competition Law

Leadership, Higher and Adult Education

LHAE: Introduction

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Adult Education and Community Development

MA, MEd, and PhD

Educational Leadership and Policy

MA, MEd, EdD, and PhD

- Fields:
 - Educational Leadership and Policy;
 - International Educational Leadership and Policy (EdD only)

Higher Education

MA

- Field:
 - Higher Education

MEd

- Fields:
 - Education in the Professions;
 - Higher Education;
 - Student Development and Student Services in Higher Education

EdD

- Field:
 - Higher Education

PhD

- Field:
 - Higher Education

Collaborative Specializations

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

- [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](#)

- 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
- [Engineering Education](#)
 - Higher Education, MA, MEd, PhD
- [Environmental Studies](#)
 - Adult Education and Community Development, MA, MEd, PhD
- [Environment and Health](#)
 - Adult Education and Community Development, MA, MEd, PhD
- [Ethnic and Pluralism Studies](#)
 - Educational Leadership and Policy, MA, MEd, EdD, PhD
- [Indigenous Health](#)
 - Adult Education and Community Development, MA, MEd, PhD
- [Sexual Diversity Studies](#)
 - Adult Education and Community Development, MA, MEd, PhD
 - 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 areas: primary, secondary, and higher education leadership and administration; adult education; policy and change; social diversity; and community engagement. LHAE develops and organizes collaborative specializations in support of particular research areas of interest including those in policy, international development education, and workplace learning. These collaborative specializations can be taken in conjunction with most OISE graduate programs.

Contact and Address

Admissions

Initial inquiries regarding admission to graduate studies in the Department of Leadership, Higher and Adult Education should be made directly to:

Web: www.oise.utoronto.ca/orss

Email: admissions.oise@utoronto.ca

Tel: (416) 978-4300
Fax: (416) 323-9964

Office of the Registrar and Student Services
Ontario Institute for Studies in Education (OISE)
University of Toronto
252 Bloor Street West, Rm. 8-225
Toronto, Ontario M5S 1V6
Canada

Programs

Web: www.oise.utoronto.ca/lhae

Email: lhae.pa@utoronto.ca

Telephone (Admissions and Programs): (416) 978-1251

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

LHAE: Graduate Faculty

Full Members

Bascia, Nina - PhD (**Chair and Graduate Chair**)
Bickmore, Kathy - MA, PhD
Buckner, Elizabeth - PhD
Campbell, Carol - BA, PhD
Childs, Ruth - BS, MA, PhD
Davies, Scott - BA, MA, PhD
Flessa, Joseph - BA, MA, PhD
Gaskell, Jane - BA, EdD
Hayhoe, Ruth - BA, MA, PhD
Hildyard, Angela - BSc, MA, PhD
Janzen, Katharine - BS, BN, MEd, EdD
Jones, Glen - BA, BEd, MEd, PhD
Joshee, Reva - BLitt, MA, PhD
Lopez, Ann - BA, BE, MEd, PhD
Magnusson, Jamie-Lynn - BA, MA, PhD
McCready, Lance - BA, MA, PhD
Mirchandani, Kiran - BA, MPH, PhD
Mojab, Shahrzad - BA, MEd, EdD
Mundy, Karen - BA, MA, PhD
Muzzin, Linda - BA, MA, MPsy, PhD
Niyozov, Sarfaro - MEd, MA, PhD
Portelli, John - MEd, PhD
Restoule, Jean-Paul - BA, MA, DPhil
Ryan, James - BEd, MEd, PhD
Sa, Creso - BA, MA, DPhil
Sawchuk, Peter - BSc, BEd, PhD
Walcott, Rinaldo - BA, MA, PhD
Waterman, Stephanie - BA, MA, PhD
Wheelahan, Leesa - BA, MA, PhD
Zuker, Marvin - BA, LLB, MEd

Members Emeriti

Anderson, Stephen - BA, MA, PhD
Antone, Eileen - AB, BE, MEd, EdD
Chambers, Anthony - BS, MS, EdD
Lang, Daniel - BA, MAT, PhD

Leithwood, Kenneth - BA, BPHE, MPE, PhD
Mascall, Matthew - BA, MSc, PhD
Miles, Angela - BA, MA, PhD
Skolnik, Michael - BPhil, BA, MA
Stiegelbauer, Suzanne - BS, MA, MA, PhD

Associate Members

Belanger, Stephanie - PhD
Buddel, Neil - BSc, MEd, PhD,
Chahine, Saadallah - MEd
Colgan, Lynda - BSc, BEd, MEd, PhD
Desbiens, Brian - AB, MA, PhD
Diaz Rios, Claudia Milena - PhD
Evans-Tokaryk, Tyler - PhD
Haque, Eve - MA
Knight, Jane - PhD
Lopes, Valerie Mary - BA, MA, PhD
Mensah, Joseph - BA, MA, PhD
Moodie, Gavin - PhD
Mosher, Janet - LLB
Pan, Julia - BA, MEd, PhD
Parzen, Maurine - BNSc, MS, PhD
Pinto, Laura Elizabeth - BEd, BCom, MEd, PhD
Pollock, Katina - PhD
Scully-Stewart, Coleen Mary - BA, MEd, PhD
Sharratt, Lyn - BA, MEd, EdD
Sumner, Jennifer M. - PhD
Tuters, Stephanie Diane - PhD
Wemigwans, Jennifer - DPhil
Wright, Sarah Robin - PhD

LHAE: Adult Education and Community Development MA

Master of Arts

Program Description

The MA is a research-based thesis degree program which can be taken on a full-time or part-time basis. The MA program focuses on learning that happens individually and collectively among adults in communities, workplaces, social movements, the street, and the virtual world — any place where people come together to create social change. The program serves individuals seeking to develop skills for education, community, and organizational roles in a wide range of settings in public, private, and voluntary sectors. Graduates work with newcomers, youth, women's groups, LGBTQ agencies, organized labour, racialized people, and disenfranchised communities in positions that involve community engagement and education, policy development, leadership, mentorship, and organizational development. The department welcomes applicants with diverse but relevant backgrounds.

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's degree in a relevant discipline or professional program from a recognized university, with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - Either LHA 1100H *Introduction to Adult Education* (0.5 FCE) or LHA 1102H *Community Development: Innovative Models* (0.5 FCE).
 - LHA 1183H *Master's Thesis Seminar* (0.5 FCE).
 - At least one research methods course (0.5 FCE).
 - Elective coursework, 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.
- A **thesis** based on original research, 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

LHAE: Adult Education and Community Development MEd

Master of Education

Program Description

The MEd is a non-thesis, course-based professional degree program which can be taken on a full-time or part-time basis. The MEd program focuses on learning that happens individually and collectively among adults in communities, workplaces, social movements, the street, and the virtual world — any place where people come together to create social change. It serves individuals seeking to develop skills for education, community, and organizational development roles in a wide range of settings in public, private, and voluntary sectors. Graduates work with newcomers, youth, women's groups, LGBTQ agencies, organized labour, racialized people, and disenfranchised communities in positions that involve community engagement and education, policy development, leadership, mentorship, and organizational development. The department welcomes applicants with diverse but relevant backgrounds.

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's degree in a relevant discipline or professional program from a recognized university, with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - Either LHA 1100H *Introduction to Adult Education* (0.5 FCE) or LHA 1102H *Community Development: Innovative Models* (0.5 FCE).
 - Elective coursework, of which at least 2.5 FCEs must be from the Adult Education and Community Development program.
 - One research methods course is recommended (0.5 FCE).

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

LHAE: Adult Education and Community Development PhD

Doctor of Philosophy

Program Description

The PhD is a research-based thesis degree program which can be taken on a full-time or flexible-time basis. 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 PhD focuses on learning that happens individually and collectively among adults in communities, workplaces, social movements, the street, and the virtual world — any place where people come together to create social change.

Except for the time to completion, requirements for both the full-time and flexible-time programs are the same. The department welcomes applicants with diverse but relevant backgrounds.

PhD Program (Full-Time Option)

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 master's degree from a recognized university in a relevant discipline or professional program, with a minimum standing equivalent to a University of Toronto B+.
- Applicants 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 admissions committee.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3102H+ *Doctoral Thesis Seminar* (0.5 FCE), recommended to be taken in the first session of the program.
 - At least 1.5 FCEs must be from the Adult Education and Community Development program. Students with little background in the area of Adult Education and Community Development may be required to complete an additional 0.5 FCE providing such background.
 - At least one research methods course (0.5 FCE).
- **Comprehensive requirement.** Normally, a major paper between 5,000 and 7,000 words in length (including tables, figures, and references), which consists of a comprehensive discussion of one or more literatures and/or debates of significance to Adult Education and Community Development.
- **Thesis.**
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Flexible-Time Option)

Applicants to the flexible-time option 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.

Capacity to secure blocks of time to enable concentrated study is required.

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 master's degree from a recognized university in a relevant discipline or professional program, with a minimum standing equivalent to a University of Toronto B+.
- Applicants 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 admissions committee.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3102H+ *Doctoral Thesis Seminar* (0.5 FCE), recommended to be taken in the first session of the program.
 - At least 1.5 FCEs must be from the Adult Education and Community Development program. Students with little background in the area of Adult Education and Community Development may be required to complete an additional 0.5 FCE providing such background.
 - At least one research methods course (0.5 FCE).
- **Comprehensive requirement.** Normally, a major paper between 5,000 and 7,000 words in length (including tables, figures, and references), which consists of a comprehensive discussion of one or more literatures and/or debates of significance to Adult Education and Community Development.
- **Thesis.**
- Students must register continuously until all degree requirements have been fulfilled. They register full-time during the first four years and may continue as part-time students thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

6 years

Time Limit

8 years

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

LHAE: Adult Education and Community Development MA, MEd, PhD Courses

Not all courses are offered every year. Please consult the [course schedule](#) posted on OISE's Office of the Registrar and Student Services' website.

LHA 1100H	Introduction to Adult Education
LHA 1101H	Program Planning in Adult Education
LHA 1102H	Community Development: Innovative Models
LHA 1103H	Introduction to Research Methods in Adult Education (RM)
LHA 1105H	Introduction to Qualitative Research: Part I (RM)
LHA 1106H	Introduction to Qualitative Research: Part II (RM)
LHA 1107H	Developing and Leading High Performing Teams: Theory and Practice
LHA 1108H	Adult Learning
LHA 1109H	Creative Empowerment Work with the Disenfranchised
LHA 1110H	Approaches to Teaching Adults
LHA 1111H	Working with Survivors of Trauma
LHA 1113H	Gender and Race at Work
LHA 1114H	Commons, Community and Social Justice
LHA 1115H	Learning for the Global Economy
LHA 1119H	Creating a Learning Organization
LHA 1122H	Practicum in Adult Education and Community Development (Credit/No Credit)
LHA 1142H	Young Adulthood in Crisis: Learning, Transitions, and Activism
LHA 1143H	Introduction to Feminist Perspectives on Society and Education
LHA 1144H	Queer Interventions: Tools for Community Organizing
LHA 1145H	Participatory Research in the Community and the Workplace (RM)
LHA 1146H	Women, War, and Learning
LHA 1147H	Women, Migration, and Work
LHA 1148H	Introduction to Workplace, Organizational, and Economic Democracy
LHA 1149H	Precarity and Dispossession: Urban Poverty and Rebel Cities
LHA 1150H	Critical Perspectives on Organizational Change
LHA 1152H	Individual Reading and Research in Adult Education: Master's Level
LHA 1171H	Foundations of Indigenous Education in Canada
LHA 1180H	Indigenous Worldviews: Implications for Education
LHA 1181H	Embodied Learning and Alternative Approaches to Community Wellness
LHA 1182H	Nonprofits, Co-operatives, and the Social Economy: An Overview
LHA 1183H ⁺	Master's Research Seminar (Credit/No Credit)
LHA 1184H	Indigenous Knowledge: Implications for Education
LHA 1185H	Leadership in Organizations: Changing Perspectives
LHA 1186H	Organizational Change in the Nonprofit and Public Sectors
LHA 1190H	Community Healing and Peacebuilding

LHA 1193H	Adult Education for Sustainability
LHA 1194H	Cyberliteracy, Workplace, and Adult Education
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 3104H	Adult Education, Marxism, and Feminism
LHA 3152H	Individual Reading and Research in Adult Education: Doctoral Level
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education
LHA 3182H	Citizenship Learning and Participatory Democracy
LHA 3183H	Introduction to Institutional Ethnography (RM)
LHA 3184H	Indigenous Research Methodologies (RM)
LHA 5100H	Special Topics in Adult Education and Community Development: Master's Level
LHA 6100H	Special Topics in Adult Education and Community Development: Doctoral Level
CIE 1001H	Introduction to Comparative, International, and Development Education
CIE 1002H	Practicum in Comparative, International, and Development Education
CIE 1006H	Transnational Perspectives on Democracy, Human Rights, and Democratic Education in an Era of Globalization
CIE 6000H	Special Topics in Comparative, International, and Development Education
WPL 1131H	Introduction to Workplace Learning and Social Change
WPL 2944H	Sociology of Learning and Social Movements
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 and Community Development program and will satisfy the program's requirement. For descriptions, see the relevant programs.

SJE 1925H	Indigenous Knowledge and Decolonization: Pedagogical Implications
SJE 2942H	Education and Work

LHAE: Educational Leadership and Policy MA

Master of Arts

Program Description

The MA program in Educational Leadership and Policy fosters the study of problems in leadership and policy with respect to educational programs, with an emphasis on elementary and secondary schools. It will best serve students who have a commitment to scholarship and research as a means of deepening their understanding of leadership action in schools or in other educational and service institutions.

The MA is available through both full-time and part-time studies. While experience in teaching and administration is not an essential prerequisite for admission, such experience provides a desirable background. The department welcomes applicants with diverse but relevant backgrounds.

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's degree from a recognized university in a relevant discipline or professional program, with a grade equivalent to a University of Toronto B+ or better in the final year.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - LHA 1003H *Designing Master's Research Proposals* (0.5 FCE).
 - LHA 1004H *Research Literacy in Educational Leadership and Policy* (RM) (0.5 FCE).
 - LHA 1040H *Introduction to Educational Leadership and Policy: Policy, Leadership, Change, and Diversity* (0.5 FCE).
 - At least 2.0 FCEs must be in Educational Leadership and Policy, normally at the 1000 level or 5000 Special Topics level. Additional courses may be required of some students.
- **Thesis**, to be developed under the guidance of a faculty member.

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

LHAE: Educational Leadership and Policy MEd

Master of Education

Program Description

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 in elementary and secondary schools. The MEd degree can be pursued on a part-time or full-time basis. While experience in teaching and administration is not an essential prerequisite for admission, such experience provides a desirable background. The department welcomes applicants with diverse but relevant backgrounds.

There are two MEd options available:

- **Coursework Only Option** and
- **Coursework Plus Major Research Paper Option.**

Students initially apply to and register in the Coursework Only Option. For registration in the Coursework Plus Major Research Paper Option, department permission is required.

The Coursework Only Option is available in two delivery models:

- Regular MEd stream: students are accepted every year and can register on a full-time or part-time basis.
- Online/Hybrid (part-time) Cohort-based stream: available in select years. Students move through the program as a cohort and register part-time. Applicants who are interested in the Online/Hybrid Cohort must specify their interest in this cohort in their Statement of Intent. However, due to limited space, admission to the MEd degree program does not guarantee membership in this cohort.

MEd Program (Coursework Only Option [Regular Delivery])

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's degree from a recognized university in a relevant discipline with a grade equivalent to a University of Toronto mid-B or better in the final year.
- Two letters of reference. Whenever possible, one should be written by an educational professional for whom the applicant has worked. The second should be by a referee who can attest to the applicant's academic ability.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:

- LHA 1004H *Research Literacy in Educational Leadership and Policy* (0.5 FCE), to be taken at the beginning of the program.
- LHA 1040H *Introduction to Educational Leadership and Policy: Policy, Leadership, Change, and Diversity* (0.5 FCE), to be taken at the beginning of the program.
- 4.0 other FCEs, of which at least 2.0 FCEs must be from the Educational Leadership and Policy program. Students may choose to focus on one of the four research areas: Policy, Leadership, Change, or Social Diversity.

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

MEd Program (Coursework Only Option [Online/Hybrid Delivery, Part-Time Only])

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's degree from a recognized university in a relevant discipline with a grade equivalent to a University of Toronto mid-B or better in the final year.
- Two letters of reference. Whenever possible, one should be written by an educational professional for whom the applicant has worked. The second should be by a referee who can attest to the applicant's academic ability.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - LHA 1004H *Research Literacy in Educational Leadership and Policy* (0.5 FCE), to be taken at the beginning of the program.
 - LHA 1040H *Introduction to Educational Leadership and Policy: Policy, Leadership, Change, and Diversity* (0.5 FCE), to be taken at the beginning of the program.
 - 4.0 other FCEs, of which at least 2.0 FCEs must be from the Educational Leadership and Policy program. Students may choose to focus on one of the four research areas: Policy, Leadership, Change, or Social Diversity.

Program Length

10 sessions part-time

Time Limit

6 years part-time

MEd Program (Coursework Plus Major Research Paper Option)

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's degree from a recognized university in a relevant discipline with a grade equivalent to a University of Toronto mid-B or better in the final year.
- Two letters of reference. Whenever possible, one should be written by an educational professional for whom the applicant has worked. The second should be by a referee who can attest to the applicant's academic ability.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - LHA 1003H *Designing Master's Research Proposals* (0.5 FCE). Part-time students are recommended to take this course towards the end of their program; full-time students are recommended to take it in Year 1.
 - LHA 1040H *Introduction to Educational Leadership and Policy: Policy, Leadership, Change, and Diversity* (0.5 FCE), to be taken at the beginning of the program.
 - 3.0 other FCEs, of which at least 1.5 FCEs must be from the Educational Leadership and Policy program. Students may choose to focus on one of the four program strands: Policy, Leadership, Change, or Social Diversity. LHA 1004H *Research Literacy in Educational Leadership and Policy (RM)* is strongly recommended.
- **Major Research Paper (MRP):** LHA 2001Y⁰ *Major Research Paper* to be carried out under the guidance of a faculty member.

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

LHAE: Educational Leadership and Policy EdD

Doctor of Education

Program Description

The EdD program in Educational Leadership and Policy is intended to shape highly competent leadership positions in school systems and other educational institutions. The program is specifically designed for working professional educators who want to develop the intellectual and research skills that will help them refine their practice as leaders in educational systems.

The EdD program is offered full-time in a cohort format. The department welcomes applicants with diverse but relevant backgrounds.

Students cannot transfer between the EdD and PhD programs.

EdD Program

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.
- Master's degree in the area of Educational Leadership and Policy or an equivalent degree with high academic standing from a recognized university.
- In addition to the Statement of Intent, a supplementary writing sample is required, which will help the admissions committee to assess an applicant's readiness to succeed in rigorous coursework and to conduct systematic research for the EdD. Applicants typically submit a master's-level Major Research Paper or thesis as their writing sample. Applicants who do not have a Major Research Paper or thesis must provide a writing sample that showcases their ability to write clearly and analytically about educational issues. Examples include a master's-level course paper, a policy document, and a professional publication.
- The applicant must be in a leadership position in education, or must have held a leadership position, or must demonstrate potential for leadership.

Program Requirements

- **Coursework.** Students must complete **4.0 core full-course equivalents (FCEs)** as follows:
 - LHA 3003H *Designing Research Proposals in Educational Leadership and Policy* (Credit/No Credit; 0.5 FCE).
 - LHA 3004H *Research and Literacy for the EdD Program* (0.5 FCE).
 - LHA 3005H *Introduction to Research Methods for the EdD-RM* (0.5 FCE).
 - LHA 3006H *Data Analysis for the Education Doctorate-RM* (0.5 FCE) **or** another research methods course.
 - LHA 3007H *Literature Reviews for the EdD Program* (0.5 FCE).

- LHA 3040H *People and Power in Organizations* (0.5 FCE).
- LHA 3041H *Doctoral Seminar on Policy Issues in Education* (0.5 FCE).
- Additional 0.5 FCE at the 3000 level or 6000 Special Topics level.
- **Comprehensive examination.** Successful oral defence of a written portfolio that emphasizes reflective practice.
- **Thesis (dissertation in practice) proposal hearing.**
- **Thesis (dissertation in practice):** The thesis (dissertation in practice) is the culminating component of the Doctor of Education degree in Educational Leadership and Policy that shall include an identification and investigation of a problem of practice, the application of theory and research to the problem of practice, and a design for action to address the problem of practice. Specifically, the thesis (dissertation in practice) consists of original research in the form of a written proposal or plan for innovative and impactful educational policy, guideline, advocacy, development project, or activism within or beyond a traditional educational setting, aimed at improving practice at local, regional, national, or international levels.
- Students cannot transfer between the EdD and PhD programs.
- Students are full-time and must maintain continuous registration full-time and pay full-time fees until all degree requirements, including the thesis (dissertation in practice), are completed.

Program Length

4 years

Time Limit

6 years

Field: International Educational Leadership and Policy

The field in International Education Leadership and Policy within the Educational Leadership and Policy EdD program offers a robust, world-class program of study structured for professionals working within international settings in positions of leadership and policymaking who want to create impact in their field and mobilize new solutions to real-world problems. The EdD program is offered full-time in a cohort format and will be delivered in a hybrid modality with short on-campus Institutes. The majority of courses will be offered online. The department welcomes applicants with diverse but relevant backgrounds.

Students cannot transfer between the EdD and PhD programs.

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.
- Master's degree in the area of Educational Leadership and Policy or an equivalent degree with high academic standing from a recognized university.

- In addition to the Statement of Intent, in which applicants will demonstrate experience and interest in studying international issues in education policy and leadership, a supplementary writing sample is required, which will help the admissions committee to assess an applicant's readiness to succeed in rigorous coursework and to conduct systematic research for the EdD. Applicants typically submit a master's-level Major Research Paper or thesis as their writing sample. Applicants who do not have a Major Research Paper or thesis must provide a writing sample that showcases their ability to write clearly and analytically about educational issues. Examples include a master's-level course paper, a policy document, and a professional publication.
- The applicant must be in a leadership position in education in an international setting, or must have held a leadership position, or must demonstrate the relevance of the program to their position or professional development in international education policy.

Program Requirements

- **Coursework.** Students must complete **4.0 core full-course equivalents (FCEs)** as follows:
 - LHA 3003H *Designing Research Proposals in Educational Leadership and Policy* (0.5 FCE; Credit/No Credit)
 - LHA 3005H *Introduction to Research Methods for the EdD-RM* (0.5 FCE)
 - LHA 3006H *Data Analysis for the Education Doctorate-RM* (0.5 FCE)
 - LHA 3007H *Literature Reviews for the EdD Program* (0.5 FCE)
 - LHA 3040H *People and Power in Organizations* (0.5 FCE)
 - LHA 3041H *Doctoral Seminar on Policy Issues in Education* (0.5 FCE)
 - 0.5 elective FCE chosen from 1000, 3000, or 6000-level courses as available online **or**
 - individual reading course (LHA 3052H) **or**
 - practicum course (CIE 1002H) (0.5 FCE)
 - LHA 3008H *Professional Seminar and Dissertation Workshop in International Educational Leadership and Policy* (0.5 FCE)
 - Courses will be offered in specialized sections for the International Educational Leadership and Policy field cohort with course syllabi adapted to reflect the international educational policy focus.
 - Attendance in an on-campus Institute will be required to allow face-to-face delivery of one course in each of Years 1, 2, and 3. The Institute will foster cohort engagement and exchange; orientation to the OISE professors, the University of Toronto, and the program.
 - All other courses will be offered online using synchronous and asynchronous modalities.
- **Comprehensive examination.** Successful oral defence of a portfolio that emphasizes reflective practice will be held using video-conferencing.
- **Thesis (dissertation in practice) proposal hearing.**
- **Thesis (dissertation in practice):** The thesis (dissertation in practice) is the culminating component of the Doctor of Education degree in International Educational Leadership and Policy that shall include an identification and investigation of a problem of practice, the application of theory and research to the problem of practice, and a design for action to address the problem of practice. Specifically, the thesis (dissertation in practice) consists of original research in the form of a written proposal or plan for

innovative and impactful educational policy, guideline, advocacy, development project, or activism within or beyond a traditional educational setting, aimed at improving practice at local, regional, national, or international levels.

- Students are full-time and must maintain continuous registration full-time and pay full-time fees until all degree requirements, including the thesis (dissertation in practice), are completed.

Program Length

4 years

Time Limit

6 years

LHAE: Educational Leadership and Policy PhD

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 leadership in schools or in other educational and service institutions.

The program offers both full-time and flexible-time options. While experience in teaching and leadership is not an essential prerequisite for admission, such experience provides a desirable background. The department welcomes applicants with diverse but relevant backgrounds.

PhD Program

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 master's degree, from a recognized university in a relevant discipline or professional program, with a minimum standing equivalent to a University of Toronto A–.
- In addition to the Statement of Intent, a supplementary writing sample is required, which will help the admissions committee to assess an applicant's readiness to succeed in rigorous coursework and to conduct systematic research for the PhD. Applicants typically submit a master's-level Major Research Paper or thesis as their writing sample. Applicants who do not have a Major Research Paper or thesis must provide a writing sample that showcases their ability to write clearly and analytically about educational issues. The admissions committee will look for evidence that applicants understand how to, or have the potential to, craft an academic document, display an ability to define a research problem, devise an appropriate focus for an inquiry, assemble and analyze evidence, and develop

conclusions in a rigorous manner. Examples include a master's-level course paper, a policy document, and a professional publication.

Program Requirements

- **Coursework.** Students must complete a minimum of **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3040H *People and Power in Organizations* (0.5 FCE).
 - 1.0 FCE in research methods, to be chosen in consultation with the faculty advisor (excluding LHA 1003H and LHA 1004H, which may not be counted towards this requirement). 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 study.
 - At least 0.5 FCE at the 3000 level or the 6000 Special Topics level from the Educational Leadership and Policy program.
- **Comprehensive examination.** Successful oral defence of a written **portfolio** that emphasizes reflective practice.
- **Thesis proposal hearing.**
- **Thesis.**
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-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.
- An appropriate master's degree, from a recognized university in a relevant discipline or professional program, with a minimum standing equivalent to a University of Toronto A–.
- In addition to the Statement of Intent, a supplementary writing sample is required, which will help the admissions committee to assess an applicant's readiness to succeed in rigorous coursework and to conduct systematic research for the PhD. Applicants typically submit a master's-level Major Research Paper or thesis as their writing sample. Applicants who do not have a Major Research Paper or thesis must provide a writing sample that showcases their ability to write clearly and analytically about educational issues. The admissions committee will look for evidence that applicants understand how to, or have the potential to,

craft an academic document, display an ability to define a research problem, devise an appropriate focus for an inquiry, assemble and analyze evidence, and develop conclusions in a rigorous manner. Examples include a master's-level course paper, a policy document, and a professional publication.

- 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. Capacity to secure blocks of time to enable concentrated study is required.

Program Requirements

- **Coursework.** Students must complete a minimum of **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3040H *People and Power in Organizations* (0.5 FCE).
 - 1.0 FCE in research methods, to be chosen in consultation with the faculty advisor (excluding LHA 1003H and LHA 1004H, which may not be counted towards this requirement). 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 study.
 - At least 0.5 FCE at the 3000 level or the 6000 Special Topics level from the Educational Leadership and Policy program.
- **Comprehensive examination.** Successful oral defence of a written **portfolio** that emphasizes reflective practice.
- **Thesis proposal hearing.**
- **Thesis.**
- Students must register continuously until all degree requirements have been fulfilled. They register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

6 years

Time Limit

6 years

LHAE: Educational Leadership and Policy MA, MEd, EdD, PhD Courses

Not all courses are offered every year. Please consult the [course schedule](#) posted on OISE's Office of the Registrar and Student Services' website.

Some sections of existing courses are offered off campus and online in order to make them available to students in localities far from Toronto.

EDP 3045H	Educational Policy and Program Evaluation
EDP 3145H	Advanced Issues in Educational Policy Analysis and Program Evaluation
JOI 3043H	Development and Use of Surveys in Education Research (RM)
JOI 3048H	Intermediate Statistics in Educational Research: Multiple Regression Analysis (RM)
LHA 1003H	Designing Master's Research Proposals
LHA 1004H	Research Literacy in Educational Leadership and Policy (RM)
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 1030H	The Legal Context of Education
LHA 1035H	Sociology of Education
LHA 1040H	Introduction to Educational Leadership and Policy: Policy, Leadership, Change, and Diversity
LHA 1041H	Social and Policy Contexts of Schooling
LHA 1042H	Educational Leadership and Diversity
LHA 1047H	Managing Changes in Classroom Practice
LHA 1048H	Educational Leadership and School Improvement
LHA 1050H	Themes and Issues in Policy, Leadership, Change, and Social 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 1066H	Comparative and International Perspectives on Gender and Education Policy and Practice (exclusion: CIE 6000H)
LHA 2001Y ⁰	Major Research Paper
LHA 3003H	Designing Research Proposals in Educational Leadership and Policy (Credit/No Credit)
LHA 3004H	Research Literacy for the EdD Program
LHA 3005H	Introduction to Research Methods for the EdD-RM (prerequisite: LHA 3004H)
LHA 3006H	Data Analysis for the Education Doctorate-RM (prerequisite: LHA 3005H)
LHA 3007H	Literature Reviews for the EdD Program (prerequisite: LHA 3004H)
LHA 3008H	Professional Seminar and Dissertation Workshop in International Educational Leadership and Policy
LHA 3022H	The Investigation of School Culture: An Examination of the Daily Life of Schools
LHA 3030H	Advanced Legal Issues in Education
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 3044H	Internship/Practicum in Educational Leadership and Policy
LHA 3047H	Research Seminar on Leadership and Educational Change

LHA 3052H	Individual Reading and Research in Educational Leadership and Policy: Doctoral Level
LHA 5000H	Special Topics in Educational Leadership and Policy: Master's Level
LHA 6000H	Special Topics in Educational Leadership and Policy: Doctoral Level

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

Interprogram Courses

The following course is accepted for credit in the Educational Leadership and Policy program and will satisfy that program's requirement. For a description, see the relevant program.

LHA 2006H	Educational Finance and Economics (exclusion: students who have taken LHA 1017H or LHA 1841H are not eligible to take LHA 2006H)
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education

LHAE: Higher Education MA

Master of Arts

Program Description

The MA in Higher Education is a research-stream program that focuses on higher education as a field of study. It best serves students seeking the knowledge and research skills needed to pursue administrative and policy careers related to higher education. The MA program also prepares students to pursue doctoral studies in higher education and related fields.

The MA is available through both full-time and part-time studies. The department welcomes applicants with diverse but relevant backgrounds.

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's degree from a recognized university with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - LHA 3803H *Doctoral Seminar: Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - 0.5 FCE in research methods approved by the faculty advisor.
 - 3.0 other FCEs, of which 1.5 FCEs must be from the Higher Education program.
- **Thesis.**

Program Length

6 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

LHAE: Higher Education MEd

Master of Education

Program Description

The Master of Education is a course-based, professional degree designed primarily for higher education professionals seeking to advance their understanding of the issues confronting their institution and the postsecondary system. It best serves students seeking research-informed knowledge on how colleges and universities work in order to pursue or advance administrative and policy careers related to higher education. The program can be pursued on a full-time or part-time basis.

The Master of Education is offered in three fields: 1) Education in the Professions; 2) Higher Education; and 3) Student Development and Student Services in Higher Education.

Field: Education in the Professions

The Education in the Professions field is a course-based professional master's designed for individuals working in areas such as the health professions, law and law enforcement, engineering, and public services, who are planning a career in educational administration, teaching, and leadership. This field introduces the broader area of higher education as well as current issues and research methods in education research in the professions. Two options are offered:

- Coursework Only Option
- Coursework Plus Major Research Paper Option

Students initially apply to and register in the Coursework Only Option. For registration in the Coursework Plus Major Research Paper Option, departmental permission is required.

Field: Higher Education

The Higher Education field is offered in two delivery models:

- Regular MEd stream: students are accepted every year and can register on a full-time or part-time basis.
- Leadership Cohort stream: available in select years. The focus of the cohort is on leadership in higher education, and the expectation is that students have experience in, or are aspiring to, work in that professional capacity in colleges or universities. Students move through the Higher Education field as a cohort and register part-time. Classes are generally offered in a compressed format to suit working professionals. Applicants must specify interest in the cohort

in their Statement of Intent. However, due to limited space, admission to the Higher Education field does not guarantee membership in the Leadership Cohort.

Field: Student Development and Student Services in Higher Education

The Student Development and Student Services in Higher Education field is designed for student development and student services professionals who are seeking to acquire the knowledge and skills that are evidence- and experientially based to provide leadership in various types of postsecondary institutions.

MEd Program (Field: Education in the Professions)

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's degree from a recognized university with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements (Coursework Only Option)

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - 1.0 FCE in the Education in the Professions field.
 - 1.0 FCE in the general Higher Education program.
 - 0.5 FCE in research methods approved by the faculty advisor.
 - 2.0 FCEs in electives.

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

Program Requirements (Coursework Plus Major Research Paper Option)

Students initially apply to and register in the MEd Coursework Only Option. For registration in the Coursework Plus Major Research Paper Option, departmental permission is required.

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:

- LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
- 1.0 FCE in the Education in the Professions field.
- 1.0 FCE in the general Higher Education.
- 0.5 FCE in research methods.
- 1.0 FCE in electives.
- **Major Research Paper (MRP):** LHA 2001Y⁰ *Major Research Paper*, to be carried out under the guidance of a faculty member.

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

MEd Program (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 Leadership, Higher and Adult Education's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - 0.5 FCE in research methods.
 - 4.0 FCEs in electives, of which 1.5 FCEs must be from the Higher Education field.

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

MEd Program (Field: Student Development and Student Services 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.
- An appropriate bachelor's degree from a recognized university with a grade equivalent to a University of Toronto mid-B or better in the final year.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** as follows:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - 1.5 FCEs in Student Development and Student Services:
 - LHA 1844H *The Student Experience in Postsecondary Education* (0.5 FCE).
 - LHA 1854H *Student Development Theory* (0.5 FCE).
 - LHA 1856H *Advanced Student Development Theories in Higher Education* (0.5 FCE).
 - 3.0 FCEs including:
 - 0.5 FCE from the Higher Education field.
 - 0.5 FCE in research methods.
 - Depending on an individual student's professional experience, students may be advised to take LHA 1853H *Introduction to Student Services* (0.5 FCE).

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

LHAE: Higher Education EdD

Doctor of Education

Program Description

The EdD Program in Higher Education is intended to shape highly competent professionals in leadership positions in higher education administration or policy. It best serves students seeking the knowledge and research skills needed to pursue research-grounded professional careers in colleges, universities, government agencies, professional associations, and international organizations.

The EdD program can be pursued either on a part-time or full-time basis. The department welcomes applicants with diverse but relevant backgrounds.

Students cannot transfer between the EdD and PhD programs.

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.
- 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

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)** as follows:
 - LHA 1803H *Recurring Issues in Postsecondary Education* (0.5 FCE).
 - at least 1.0 other FCE in Higher Education.
 - 0.5 FCE in research methods 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 (0.5 FCE).
 - collaborative proseminar (0.5 FCE).
- **Comprehensive examination.** The objective of the doctoral comprehensive examination is to ensure that all students master at least one substantive research area in Higher Education and have the capacity to develop their own written analysis of selected issues within this area. The examination is designed to ensure that students are familiar with the literature and concepts associated with their special area of study within the field of Higher Education.
- **Thesis** reporting the results of original research on an applied topic in postsecondary education.
- Students may begin their EdD degree on a full-time or a part-time basis but must maintain continuous registration. They must register full-time for a minimum of two consecutive sessions, not including Summer, of on-campus study. Once enrolled full-time, students must maintain continuous registration full-time and pay full-time fees 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

LHAE: Higher Education PhD

Doctor of Philosophy

Program Description

The PhD Program in Higher Education fosters research-grounded study of higher education administration and policy. It best serves students seeking the knowledge and research skills needed to pursue careers in colleges, universities, government agencies, professional associations, and international organizations as a higher education expert. The program offers both full-time and flexible-time options.

The Doctor of Philosophy is available in two delivery models:

- **Regular PhD stream:** students are accepted every year into the full-time or flexible-time program.
- **The Community College Leadership (CCL) Cohort:** available in select years. The CCL Cohort is designed for emerging college leaders and focuses specifically on the college system. The CCL is mostly offered in compressed mode, mainly on weekends, to suit working professionals pursuing a flexible-time program. Applicants must specify their interest in the CCL Cohort in their Statement of Intent.

The department welcomes applicants with diverse but relevant backgrounds.

PhD Program (Full-Time Option)

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.
- 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 may be required.

Program Requirements

- **Coursework.** Students must complete a minimum **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3803H *Doctoral Seminar: Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - LHA 3804H *Doctoral Research Seminar in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - at least 1.0 other FCE in Higher Education.
 - 0.5 FCE in research methods approved by the faculty advisor.
 - 0.5 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.
- **Comprehensive examination.** The objective of the doctoral comprehensive examination is to ensure that all students master at least one substantive research area in

Higher Education and have the capacity to develop their own written analysis of selected issues within this area. The examination is designed to ensure that students are familiar with the literature and concepts associated with their special area of study within the field of Higher Education.

- **Thesis** reporting the results of original research in postsecondary education.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time Option)

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.
- 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 may be required.
- 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. Applicants should have capacity to secure blocks of time to enable concentrated study.

Program Requirements

- **Coursework.** Students must complete a minimum **3.0 full-course equivalents (FCEs)** as follows:
 - LHA 3803H *Doctoral Seminar: Recurring Issues in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - LHA 3804H *Doctoral Research Seminar in Postsecondary Education* (0.5 FCE), to be taken at the beginning of the program.
 - at least 1.0 other FCE in Higher Education.
 - 0.5 FCE in research methods approved by the faculty advisor.
 - 0.5 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.
- **Comprehensive examination.** The objective of the doctoral comprehensive examination is to ensure that all students master at least one substantive research area in Higher Education and have the capacity to develop their own written analysis of selected issues within this area. The

examination is designed to ensure that students are familiar with the literature and concepts associated with their special area of study within the field of Higher Education.

- **Thesis** reporting the results of original research in postsecondary education.
- Students must register continuously until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

6 years

Time Limit

6 years

LHAE: Higher Education MA, MEd, EdD, PhD Courses

Not all courses are offered every year. Please consult the [course schedule](#) posted on OISE's Office of the Registrar and Student Services' website.

LHA 1803H	Recurring Issues in Postsecondary Education
LHA 1805H	The Community College
LHA 1806H	Systems of Higher Education
LHA 1807H	System-Wide Planning and Policy for Higher Education
LHA 1809H	Administration of Colleges and Universities
LHA 1811H	Organizational Change in Higher Education
LHA 1812H	Education and the Professions
LHA 1814H	Lifelong Learning and Professional and Vocational Education (exclusion: LHA 5807H Special Topics in Higher Education: Master's Level)
LHA 1815H	Teaching in Institutions of Higher Education
LHA 1816H	Sociology of Higher Education (exclusion: LHA 5807H Special Topics in Higher Education: Master's Level)
LHA 1818H	Politics of Higher Education (exclusion: LHA 5806H Special Topics in Higher Education: Master's Level)
LHA 1825H	Comparative Education: Theory and Methodology
LHA 1826H	Comparative Higher Education
LHA 1828H	Evaluation in Higher Education
LHA 1834H	Qualitative Research in Higher Education
LHA 1835H	Logics and Strategies of Case Study Research (RM)
LHA 1836H	Critical Analysis of Research in Higher Education
LHA 1843H	Higher Education and the Law
LHA 1844H	The Student Experience in Postsecondary Education
LHA 1846H	Internationalization of Higher Education in a Comparative Perspective

LHA 1848H	Innovative Curricula in Higher Education and the Professions
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 1856H	Advanced Student Development Theories in Higher Education
LHA 1857H	Leadership in Student Affairs and Services
LHA 1860H	Capstone Project for Higher Education Leadership Cohort Option (exclusion: LHA 5805H Special Topics in Higher Education: Master's Level)
LHA 2006H	Educational Finance and Economics (exclusion: students who have taken LHA 1017H or LHA 1841H are not eligible to take LHA 2006H)
LHA 3803H	Doctoral Seminar: Recurring Issues in Postsecondary Education
LHA 3804H	Doctoral Research Seminar in Higher Education
LHA 3810H	International Academic Relations
LHA 3852H	Individual Reading and Research in Higher Education: Doctoral Level
LHA 5800H	Special Topics in Higher Education: Master's Level
LHA 6800H	Special Topics in Higher Education: Doctoral Level

Interprogram Course

The following course is accepted for credit in the Higher Education program and will satisfy that program's requirement. For a description, see the relevant program.

SJE 2941H	Bourdieu: Theory of Practice in Social Sciences
-----------	---

Linguistics

Linguistics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Linguistics

MA and PhD

- Fields:
 - Language Variation;
 - Psycholinguistics;
 - Theoretical Linguistics

Collaborative Specializations

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

- [Jewish Studies](#)
 - Linguistics, PhD
- [Sexual Diversity Studies](#)
 - Linguistics, MA, PhD

Overview

The discipline of linguistics focuses on the nature of human language and how its many systems can be accounted for. The Department of Linguistics focuses on three major areas — theoretical linguistics, language variation and change, and psycholinguistics — with an emphasis on the intersections between these areas.

The core areas of research and teaching in the MA and PhD are:

- Theoretical Linguistics (generative grammar: phonetics, phonology, morphology, syntax, semantics)
- Language Variation (sociolinguistics, dialectology, language variation, language change)
- Psycholinguistics (comprehension and production, language acquisition, both in relation to linguistic theory)

Contact and Address

Web: www.linguistics.utoronto.ca

Email: linguistics@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

Linguistics: Graduate Faculty

Full Members

Beekhuizen, Barend - BA, MA, PhD
Chambers, Craig - BA, MA, MA, PhD
Cuervo, M. Cristina - PhD
Hachimi, Atiq - BA, MA, PhD
Heller, Daphna - PhD
Ippolito, Michela - BA, MPH, PhD
Jurgec, Peter - BA, PhD, ScD
Kahnemuyipour, Arsalan - PhD
Kang, Yoonjung - BA, PhD (**Graduate Coordinator**)
Kochetov, Alexei - BA, MA, PhD
Nagy, Naomi - BA, PhD
Perez-Leroux, Ana Teresa - MA, PhD
Rice, Keren - BA, MA, PhD
Roberge, Yves - BA, MA, PhD
Schertz, Jessamyn Leigh - BA, MS, PhD
Tagliamonte, Sali - AB, MA, DPhil (**Chair and Graduate Chair**)

Members Emeriti

Chambers, J. - DipEd, BA, MA, PhD
Cowper, Elizabeth - BA, AM, PhD
Dresher, B. Elan - BA, PhD
Johns, Alana - BA, MA, PhD
Massam, Diane - BA, MA, PhD
Smyth, Ronald - BA, MSc, PhD

Associate Members

Bhatt, Parth - BA, MA, PhD
Brousseau, Anne-Marie - PhD
Chasin, Marshall - BSc, MSc
Colantoni, Laura - MA, PhD
Denis, Derek - BA, MA, PhD
Hall, Daniel Currie - BA, MA, PhD
Helms-Park, Rena - BA, MA, AM, DPhil
Johnson, Elizabeth - BA, MA, PhD
Moulton, Keir - PhD
Nikiema, Emmanuel - PhD
Oliveira de Lima, Suzi - PhD
Pirvulescu, Mihaela - MA, PhD
Sanders, Nathan - PhD
Sidnell, Jack - BA, MA, PhD
Steele, Jeffrey - BA, MA, PhD
Thomas, Guillaume - PhD
Wastasecote, Brenda - MEd

Linguistics: Linguistics MA

Master of Arts

Program Description

The MA program in Linguistics offers comprehensive training in three areas of strength: theoretical linguistics, language variation and change, and psycholinguistics. Students complete rigorous coursework with research training in their preferred area of study. By the time of graduation, students are equipped with professional-level skills in interpretation of data, analysis, and argumentation.

The department offers one- and two-year MA options. The majority of students are admitted to the one-year MA program.

MA Program (One-Year Advanced-Standing Option — Standard Admission)

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 the one-year program. Admission requires a strong background in linguistics with at least courses in introductory phonetics, phonology, morphology, and syntax.

Program Requirements

- **Coursework.** Students must normally complete **4.0 full-course equivalents (FCEs)** including
 - 1.5 FCEs: JAL 1145H, LIN 1121H, and LIN 1131H or their equivalents, if not already taken
 - 1.5 FCEs from other Linguistics course offerings determined by the Graduate Coordinator
 - 1.0 FCE: LIN 2100Y *Linguistic Forum* including regular class meetings in which students discuss and present their research topics and a final paper, completed under the supervision of a faculty member working in the same research area.
- 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 (typical registration sequence: F/W/S)

Time Limit

3 years

MA Program (Two-Year)

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 the two-year MA program. Admission is offered to rare instances to exceptional applicants whose background in linguistics is limited.

Program Requirements

- **Coursework.** Students must normally complete **8.0 full-course equivalents (FCEs)** including
 - in Year 1: 4.0 FCEs in phonetics, phonology, morphology, and syntax if not completed during the student's undergraduate degree;
 - in Year 2: 4.0 FCEs as follows:
 - 2.0 FCEs: JAL 1145H, LIN 1103H, LIN 1121H, LIN 1131H, or their equivalents, if not already taken
 - 1.0 FCE from other Linguistics course offerings as determined by the Graduate Coordinator
 - 1.0 FCE: LIN 2100Y *Linguistic Forum* including regular class meetings in which students discuss and present their research topics and a final paper, completed under the supervision of a faculty member working in the same research area.
- 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

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

Time Limit

3 years full-time

Linguistics: Linguistics PhD

Doctor of Philosophy

Program Description

The PhD program in Linguistics offers comprehensive and rigorous training in an environment that encourages collaboration across the fields of Theoretical Linguistics, Language Variation and Change, and Psycholinguistics. Students achieve an advanced understanding of language and are equipped with professional-level skills in analysis, argumentation, interpretation, and quantitative reasoning. While many graduates choose academic positions, many

others choose to pursue careers in fields such as education, publishing, and data science.

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

- Coursework.** By the end of Year 2, students must complete **5.5 full-course equivalents (FCEs)** with a minimum median grade of A–:
 - 3.0 FCEs or their equivalents must be completed if they have not been taken previously: JAL 1145H, LIN 1103H, LIN 1104H, LIN 1121H, LIN 1131H, LIN 1145H
 - If these have been previously taken, a balance of electives must be taken to fulfil the 3.0 FCE requirement, chosen in consultation with the Graduate Coordinator
 - 0.5 FCE from JLP 2451H, JLP 2452H, LIN 1070H, LIN 1106H, LIN 1112H, LIN 1156H, LIN 1211H, LIN 1256H, LIN 1276H
 - 0.5 elective FCE, which may be taken outside the Department of Linguistics, upon consultation with the Graduate Coordinator
 - Of the above courses, 1.0 FCE must be taken at the 1200 level, with 0.5 FCE in Phonology, Syntax, or Semantics
 - 0.5 FCE: LIN 2101H, taken in Year 1
 - 1.0 FCE: LIN 2201H and LIN 2202H: the completion of Generals Papers in two areas of study (at least one of which must be in an area of linguistic theory). Topics must be approved by the Graduate Coordinator.
- Residency.** During Years 1 and 2, 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.
- Language.** 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.
- Thesis.** 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

Linguistics: Linguistics MA, PhD Courses

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 1001H	Introduction to Linguistics: Sound Structure
LIN 1002H	Introduction to Linguistics: Sentence Structure and Meaning
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 1070H	Language Processing
LIN 1103H	Introduction to Analysis and Argumentation
LIN 1104H	Quantitative Methods in Linguistics (Credit/No Credit)
LIN 1105H	Advanced Quantitative Methods in Linguistics (prerequisite: LIN 1104H)
LIN 1106H	Introduction to Experimental Design
LIN 1107H	Computational Methods in Linguistics (exclusions: CSC 2501H/485 Computational Linguistics and CSC 2511H/401 Natural Language Computing)
LIN 1111H	Acoustic Phonetics
LIN 1112H	Phonetic Analysis
LIN 1121H	Phonological Theory
LIN 1131H	Introduction to Syntactic Theory
LIN 1133H	Morphology: Morphosyntactic Issues
LIN 1145H	Semantics
LIN 1146H	Topics in Semantics and Pragmatics (prerequisite: LIN 1145H)
LIN 1151H	Urban Dialectology
LIN 1156H	Language Variation and Change: Theory and Analysis
LIN 1162H	Comparative-Historical Linguistics I
LIN 1211H	Advanced 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 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 1247H	Advanced Semantics III

LIN 1248H	Advanced Semantics IV
LIN 1255H	Advanced Language Variation and Change I
LIN 1256H	Advanced Language Variation and Change II
LIN 1271H	Advanced Psycholinguistics I
LIN 1272H	Advanced Psycholinguistics II
LIN 1276H	Topics in Speech Perception
LIN 1503H	Reading Seminar
LIN 1505H	Research Seminar
LIN 2100Y	Linguistic Forum
LIN 2101H	Junior Forum (Credit/No Credit)
LIN 2201H	Generals Paper I
LIN 2202H	Generals Paper II

Management & Innovation

Management & Innovation: Introduction

Faculty Affiliation

University of Toronto Mississauga (UTM)

Degree Programs

Biotechnology

MBiotech

- Fields:
 - Biopharmaceutical;
 - Digital Health Technologies

Forensic Accounting

MFAcc

Management & Professional Accounting

MMPA

Management of Innovation

MMI

Sustainability Management

MScSM

- Concentrations:
 - Management;
 - Science

Urban Innovation

MUI

Combined Degree Programs

- [UTM, Environmental Management \(Major\) Honours BA / MScSM](#)
- [UTM, Environmental Management \(Specialist\) Honours BA / MScSM](#)
- [UTM, Environmental Science \(Major\) Honours BSc / MScSM](#)
- [UTM, Environmental Science \(Specialist\) Honours BSc / MScSM](#)

Diploma Programs

Investigative & Forensic Accounting

DIFA (Admissions have been administratively suspended. The program will close on April 30, 2022.)

Collaborative Specializations

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

- [Environmental Studies](#)
 - Sustainability Management, MScSM
- [Sexual Diversity Studies](#)
 - Sustainability Management, MScSM

Overview

The Institute for Management & Innovation (IMI) is the centre for management education at the University of Toronto Mississauga (UTM). This collaborative institute provides students with access to professional master's programs in biotechnology, accounting, innovation and sustainability, and undergraduate programs in accounting, finance, marketing, and human resource management.

IMI is a cross-disciplinary institute producing mission-focused managers and future leaders with a combination of management skills and depth in their chosen field. IMI also provides an academic platform to foster close interactions and sharing of expertise between the faculty, staff, and students in these programs, along with our community partners.

Contact and Address

Institute for Management & Innovation

Web: www.utm.utoronto.ca/imi

Email: imi@utoronto.ca

Telephone: (905) 569-4565

Fax: (905) 569-4302

University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Biotechnology

Web: www.utm.utoronto.ca/mbiotech

Email: mbiotech@utoronto.ca

Telephone: (905) 569-4737

Fax: (905) 569-4302

Master of Biotechnology Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Forensic Accounting

Web: mfacc.utoronto.ca
Email: mfacc@utoronto.ca
Telephone: 905-569-4331
Fax: 905-569-4306

Master of Forensic Accounting Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Management & Professional Accounting

Web: mmpa.utoronto.ca
Email: mmpa@utoronto.ca
Telephone: (905) 569-4318
Fax: (905) 569-4306

Master of Management & Professional Accounting Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Management of Innovation

Web: www.utm.utoronto.ca/mmi
Email: mmi.utm@utoronto.ca
Telephone: (905) 569-4743
Fax: (905) 569-4302

Master of Management of Innovation Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Sustainability Management

Web: www.utm.utoronto.ca/mscsm
Email: mscsm.utm@utoronto.ca
Telephone: (905) 569-5803
Fax: (905) 569-4302

Master of Science in Sustainability Management Program
University of Toronto Mississauga
Innovation Complex, Suite 2200
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Urban Innovation

Web: www.utm.utoronto.ca/mui
Email: mui@utoronto.ca
Telephone: (416) 864-8078
Fax: (905) 569-4302

Master of Urban Innovation
University of Toronto Mississauga
Innovation Complex, Second Floor
3359 Mississauga Road
Mississauga, Ontario
L5L 1C6 Canada

Investigative & Forensic Accounting

Admissions have been administratively suspended.

Applicants may be interested in the Master of Forensic Accounting degree program listed above.
Telephone: (905) 569-4331
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

Management & Innovation: Graduate Faculty

Full Members

Aggarwal, Pankaj - BEc, MBA, MBA, PhD
Aivazian, Varouj - BS, MA, PhD
Brooks, Leonard - BCom, MBA, CA, CPA
Daniere, Amrita - AB, PhD
Galasso, Alberto - PhD
Hossain, Tanjim - BA, BS, PhD
Kang, Sonia - BSc, MA, PhD
Kant, Shashi - BE, MA, PhD
Krull, Ulrich - BSc, MSc, PhD
Lacetera, Nicola - PhD
Li, Yue - BSc, MBA, PhD
Park, Andreas - MEc, MPH, PhD
Prosser, Scott - BSc, MSc, DPhil
Rotenberg, Wendy - BA, MBA, PhD
Scharper, Stephen - BA, MA, PhD
Smiliuskas, Waldemar - BS, MS, PhD
Toh, Soo Min - BBA, PhD
Tombak, Mihkel - BS, MBA, AM, PhD
Vyas, Dushyantkumar - PhD
Wensley, Anthony - MA, MA, MBA, PhD
Ye, Minlei - PhD
Zweig, David - BA, MASc, DPhil

Associate Members

Allen, Guy - BA, MA, PhD
Gaetani, Ruben - BA, MA, MSc, PhD
Goetz, Daniel Thomas - BA, MA
Hirsh, Jacob - BSc, MA, PhD

Innocente, Nathan - BA, MA, MA
 Iqbal, Abraham - BCom, MA, CPA
 Kirsch, Tanya - BCom
 Kitunen, Joan - BBM, CA, CPA
 Parkinson, Jack - BA, MA, PhD
 Radhakrishnan, Phanikiran - DPhil
 Revers, Leigh - PhD
 Schneider, Manfred - BCom, MBA, JD, CA, CPA
 Schumann, Eckhard - BComm, CA, CPA
 Steck, Andrew Lewis - BA, MA, PhD
 Trippen, Gerhard - MCS, PhD
 Wiecek, Irene - BComm, CA, CPA
 Yousie, Kevin - BBA, MBA
 Yung, Otto - BComm, BAsC, MBA, MA
 Zuliani, Elisa - BBM, CA

Management & Innovation: Non-program Elective Courses

Institute for Management & Innovation

The following courses may be taken as electives by students enrolled in any U of T graduate program.

IMI 1001H	Innovation and Entrepreneurship
IMI 2001H	Special Topics in Management and Innovation
IMI 3001H ⁺	Biocommercialization: Analysis of Technology Driven Innovation

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

Management & Innovation: Biotechnology MBiotech

Master of Biotechnology

Program Description

The MBiotech is an interdisciplinary course-based professional degree program. Students come from various science and/or engineering 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, 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 program is a full-time, course-based master's degree which is launched in May each year.

Field: Biopharmaceutical

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & 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

- Students must complete **9.0 graduate full-course equivalents (FCEs)** over a 24-month period:
 - 4.5 FCEs MBiotech courses (includes credits for Seminar and Placement)
 - 3.5 FCEs Biopharmaceutical courses
 - 1.0 FCE elective course.
- 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

Required Courses

A general description of each required course is posted on the [Biotechnology website](#).

BTC 1600H	Biopartnering I
BTC 1610H	Biopartnering 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 Drug Manufacturing
BTC 1820H	Biotechnology in Agriculture and Natural Products
BTC 1900Y ⁰	Work Term I (Internship)
BTC 1910Y ⁰	Work Term II (Internship)
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.

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

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 2100Y	Topics in Biotechnology
BTC 2110H	Topics in Biotechnology
BTC 2120H	Topics in Biotechnology

Other graduate courses approved by Program Directors.

Field: Digital Health Technologies

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & Innovation's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university in any area of biology, chemistry, computer science, engineering, epidemiology, psychology, public health, sociology, statistics or related field with a minimum mid-B standing in the final two years of study.
- A minimum 1.0 credit of university-level statistics (or equivalent) with at least a mid-B standing.
- 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

- Students must complete **9.0 graduate full-course equivalents (FCEs)** over a 24-month period:
 - 4.5 FCEs MBiotech courses (includes credits for Seminar and Placement)
 - 4.0 FCEs Digital Health Technologies courses
 - 0.5 FCE elective course.
- 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

Required Courses

A general description of each required course is posted on the [Biotechnology website](#).

BTC 1600H	Biopartnering I
BTC 1610H	Biopartnering II
BTC 1842H	Medical Device Reimbursement
BTC 1859H	Data Science in Health I
BTC 1877H	Data Science in Health Part II (prerequisite: BTC 1859H)
BTC 1882H	Digital Ethnography in Health
BTC 1895H	Introduction to IT Consulting and Web Design
BTC 1899H	Data Science and Digital Health Technologies
BTC 1900Y ⁰	Work Term I (Internship)
BTC 1910Y ⁰	Work Term II (Internship)
BTC 2000H ⁺	Effective Management Practices
BTC 2010H	Fundamentals of Managerial Concepts
BTC 2030H	Management of Technological Innovation
MSC 2011H	Special Topics in Biomedical Communications
MSC 2019H	Information and Data Visualization in Science and Medicine

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.

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 2100Y	Topics in Biotechnology
BTC 2110H	Topics in Biotechnology
BTC 2120H	Topics in Biotechnology

Other graduate courses approved by Program Directors.

Management & Innovation: Forensic Accounting MFAcc

Master of Forensic Accounting

Program Description

The Master of Forensic Accounting (MFAcc) has been designed to provide graduates with the most thorough and rigorous preparation available in the investigative and forensic accounting field. Consequently, MFAcc graduates are expected to become recognized as the foremost forensic professionals in their chosen fields, whether those are in forensic accounting practice; in compliance functions in banks, insurance companies, and brokerages; business valuation; fraud investigation in law enforcement; securities enforcement; or in international forensic roles for the World Bank, the United Nations and its programs, and others.

MFAcc Program (Two-Year)

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 business.
- Submission of an official MFAcc application via the [SGS online application system](#).

Program Requirements

- Completion of a total of **5.0 required full-course equivalents (FCEs)** or 10 half courses, taken sequentially.
- This is a part-time program which uses a combination of a one-week intensive in-residence session and e-learning modules with group discussions, assignments, and formal examinations. It is possible for students to participate from anywhere in the world.

Program Length

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

Time Limit

6 years part-time

MFAcc Program (Eight-Month Advanced-Standing Option)

Minimum Admission Requirements

- Only applicants who graduated from the University of Toronto's graduate Diploma in Investigative & Forensic Accounting (DIFA) program are eligible to apply. Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & Innovation's additional admission requirements stated below.
- Submission of an official MFAcc application via the [SGS online application system](#).
- Two letters of reference.

Program Requirements

This part-time advanced-standing option will be available in 2019 as an eight-month option.

- **Coursework.** Students must successfully complete **2.0 full-course equivalents (FCEs)** in required courses as follows:
- 0.5 FCE: IFA 1905H involves weekly online sessions, beginning in January for nine weeks
- 0.5 FCE: IFA 1906H involves weekly online sessions, beginning in March for nine weeks
- 0.5 FCE: IFA 2905H involves weekly online and residency sessions, beginning in May*
- 0.5 FCE: IFA 2906H involves weekly online and residency sessions, beginning in June*

*Involves an intensive, mandatory six-day in-residence session, held in August at the University of Toronto Mississauga.

Program Length

2 sessions part-time (typical registration sequence: W/S)

Time Limit

2 years part-time

Management & Innovation: Forensic Accounting MFAcc Courses

Required Courses

Year 1

IFA 1900H	Forensic Accounting & Investigation, Fraud & Cybercrime
IFA 1901H	Forensic Accounting Professional & Practice Issues
IFA 1905H	Fraud Prevention, Risk Assessment & Investigation, Data Analytics & Security
IFA 1906H	Money Laundering, Asset Tracing & Recovery, and International Aspects of Fraud

IFA 1907H	Legal & Legal Process Issues for Forensic Accountants
-----------	---

Year 2

IFA 2900H	Loss Quantification
IFA 2903H	Research Project on Emerging Issues/Advanced Topics
IFA 2904H	Integrative Capstone
IFA 2905H	Advanced Forensic Investigation & Psychological Aspects of White Collar Crime
IFA 2906H	Business Valuation, Bankruptcy & Insolvency, & Advanced Loss Quantification

Management & Innovation: Management & Professional Accounting MMPA

Master of Management & Professional Accounting

Program Description

The Master of Management & Professional Accounting (MMPA) program is designed to educate future leaders of the accounting profession at the master's level in management and at the professional level in accounting and related subjects. The curriculum is organized to provide an excellent understanding of:

- the challenges, functions, and needs of management;
- accounting, finance, auditing, and tax;
- essential professional subjects;
- management skills; and
- professional capabilities.

Students from any undergraduate background may apply. The MMPA is offered as a 27-month program, a 24-month advanced-standing option, and a 12-month advanced-standing option.

MMPA Program (27-Month)

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 with a standing equivalent to at least a University of Toronto mid-B.
- Satisfactory Graduate Management Admission Test (GMAT) score. Note: the GMAT requirement will be waived for applicants who meet the following criteria:
 - have studied for four years at a North American university and graduated with a four-year degree, or
 - have graduated from one of the following programs: the University of Toronto Mississauga's BCom (Accounting specialist), the Rotman School's BCom (Accounting specialist), or the University of Toronto Scarborough's BBA (specialist in Management and Accounting).

- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must also demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.

Program Requirements

The program runs for 27 months covering seven sessions of full-time study.

- **Coursework.** The program requires the successful completion of **18.0 full-course equivalents (FCEs)** in required courses, as listed below.
- **Co-op work placements.** 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 the following elective:

MGT 2208H(1)	Taxation III
--------------	--------------

Program Length

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

Time Limit

3 years

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

MMPA Program (24-Month Advanced-Standing Option)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & 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. Note: the GMAT requirement will be waived for applicants who meet the following criteria:
 - have studied for four years at a North American university and graduated with a four-year degree, or
 - have graduated from one of the following programs: the University of Toronto Mississauga's BCom (Accounting specialist), the Rotman School's BCom (Accounting specialist), or the University of Toronto Scarborough's BBA (specialist in Management and Accounting).
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must also demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.
- 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.

Program Requirements

The program runs for 24 months, covering six sessions of full-time study, as follows:

- **Coursework.** 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 MGT 2208H;
- **Co-op work placements.** 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

MMPA Program (12-Month Advanced-Standing Option)

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & Innovation's additional admission requirements stated below.
- An appropriate bachelor's degree with a standing equivalent to a University of Toronto B+.
- Satisfactory Graduate Management Admission Test (GMAT) score. Note: the GMAT requirement will be waived for applicants who meet the following criteria:
 - have studied for four years at a North American university and graduated with a four-year degree, or
 - have graduated from one of the following programs: the University of Toronto Mississauga's BCom (Accounting specialist), the Rotman School's BCom (Accounting specialist), or the University of Toronto Scarborough's BBA (specialist in Management and Accounting).
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not English must also demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.
- 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.
- 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

The program runs for 12 months, covering three sessions of full-time study, as follows:

- **Coursework.** 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;
- **Co-op work placement.** 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 & Innovation: Management of Innovation MMI

Master of Management of Innovation

Program Description

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 required academic nine core courses focus on management and economics, and students select three electives tailored to their interests and goals. A four-month mandatory internship requirement allows students to gain valuable, real-world work experience and an opportunity to demonstrate the key competencies they learn in the MMI program.

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.
- Résumé/curriculum vitae (CV), two pages maximum.
- Letter of intent outlining the applicant's interest in Management and Innovation, one page (750 words).
- Two academic letters of reference must be submitted by the applicant (or at least one academic and one professional reference). 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 submit a competitive GMAT or GRE (General) examination result to be sent to the department.
- An on-site written personal statement.
- Attend an interview where fit, problem-solving capabilities and communication skills are assessed.

Program Requirements

- The 12-month program consists of an intensive 8-month core academic curriculum followed by a 4-month internship:
 - **Coursework.** 6.0 full-course equivalents (FCEs) as follows:
 - 4.5 FCEs in required courses (see list below)
 - 1.5 FCEs in electives (0.5 FCE in the Fall session and 1.0 FCE in the Winter session)
 - **Internship:** 0.5 FCE: MMI 1100H *MMI Internship*.

Program Length

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

Time Limit

3 years full-time

Management & Innovation: Management of Innovation MMI Courses

Required Core Courses

MMI 1010H	Prices and Markets
MMI 1020H	Introduction to Big Data Analysis
MMI 1030H	Marketing Science
MMI 1040H	Accounting
MMI 1050H	Negotiations
MMI 1060H	Finance
MMI 1070H	Economics of Business Strategy
MMI 1080H	Management of Technology
MMI 1090H	Technology, Strategy, and Policy
MMI 1100H	MMI Internship

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.

Management & Innovation: Sustainability Management MScSM

Master of Science in Sustainability Management

Program Description

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.

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 the applicant's interest in sustainability issues (750 words).

Program Requirements

Management Concentration

- **Coursework.** Students must complete a total of **9.0 FCEs** as follows:
 - 6.5 FCEs (11 required courses) including:
 - SSM 1090H *Capstone Course* and
 - SSM 1100Y *Research Paper I* or SSM 1101Y *Research Paper II*
 - 2.5 FCEs (5 elective courses) selected by chosen concentration as follows:
 - 2.0 FCEs from the Management elective courses
 - 0.5 FCE from the Science elective courses.
- **Internship.** A summer internship placement (two to four months).

Science Concentration

- **Coursework.** Students must complete a total of **9.0 FCEs** as follows:
 - 6.5 FCEs (11 required courses) including:
 - SSM 1090H *Capstone Course* and
 - SSM 1100Y *Research Paper I* or SSM 1101Y *Research Paper II*
 - 2.5 FCEs (5 elective courses) selected by chosen concentration as follows:
 - 2.0 FCEs from the Science elective courses
 - 0.5 FCE from the Management elective courses.
- **Internship.** A summer internship placement (two to four months).

Program Path

Year 1: Fall

SSM 1010Y	Principles of Sustainability Management
SSM 1020H	Decision Making for Sustainability Management
SSM 1050H	Ecosystem Science
SSM 1060H	Managing Sustainable Organizations

Year 1: Winter

SSM 1030H	Environmental Science
SSM 1040H	Managerial Economics for Sustainability Management
SSM 1070H	Sustainability Law and Policy
SSM 1080H	Strategies for Sustainability Management
SSM 1120H	Social Dimensions of Sustainability

Year 1: Summer

SSM 1110H	Sustainability Management Internship
-----------	--------------------------------------

Year 2: Fall

SSM 1100Y or SSM 1101Y	Research Paper I or Research Paper II
Plus 1.5 FCE elective	

Year 2: Winter

SSM 1090H	Capstone Course — Sustainable Enterprise
SSM 1100Y or SSM 1101Y	Research Paper I or Research Paper II
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

Management & Innovation: Sustainability Management MScSM Courses

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 or SSM 1101Y	Research Paper I or Research Paper II
SSM 1120H	Social Dimensions of Sustainability

Elective Courses

Course selections need to be approved in advance by the Program Director.

Science Electives

EES 1117H	Climate Change and Impact Assessment
EES 1125H	Contaminated Site Remediation
ENV 1002H	Environmental Policy
ENV 1704H	Environmental Risk Analysis and Management
JPG 1407H	Efficient Use of Energy
SSM 2030H	Advanced Sustainability Management
SSM 2050H	Special Topics in Sustainability

Management Electives

ECO 2908H	Environmental and Resource Economics
EES 1124H	Environmental Project Management
ENV 1707H	Environmental Finance and Sustainable Investing
MGT 2918H	Multidisciplinary Special Topics
SSM 2010H	Marketing in Sustainability Management
SSM 2020H	Sustainability Ethics
SSM 2040H	Applied Sustainability Management
SSM 2050H	Special Topics in Sustainability

Management & Innovation: Investigative & Forensic Accounting DIFA

Diploma of Investigative & Forensic Accounting

Admissions have been administratively suspended. The program will close on April 30, 2022.

Program Description

The Diploma of Investigative Forensic Accounting (DIFA) program 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.

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

- **Coursework. 5.0 full-course equivalents (FCEs)** (ten half-courses) over a minimum 2.2-year period. Courses are taken sequentially and advanced-standing course exemptions are possible. The program is offered using a combination of two one-week intensive in-residence sessions, e-learning, and teleconference modules, with group discussions, assignments, and formal examinations. It is possible for students to participate from anywhere in the world.
- Advanced standing is available for qualified students; up to two courses in loss quantification and law may be counted.

Program Length

6 sessions (26 months) part-time

Time Limit

6 years part-time

Management & Innovation: Investigative & Forensic Accounting DIFA Courses

Admissions have been administratively suspended.

IFA 1900H	Forensic Accounting and Investigation, Fraud, and Cybercrime
IFA 1901H	Forensic Accounting Professional and Practice Issues
IFA 1902H	Legal Process — Introductory
IFA 1903H	Investigative-Related Matters — Introductory
IFA 1904H	Loss Quantification — Introductory
IFA 2900H	Loss Quantification
IFA 2901H	Investigative-Related Matters — Advanced
IFA 2902H	Legal Process — Advanced
IFA 2903H	Research Project on Emerging Issues/Advanced Topics
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.

Management & Innovation: Master of Urban Innovation MUI

Master of Urban Innovation

Program Description

The Master of Urban Innovation (MUI) is a full-time, professional program that will encompass studies in urban economic development, community capacity building, innovation management, local and regional governance, urban sustainability, and real estate development for innovation. The MUI will complement the suite of programs in management, innovation, and sustainability currently offered in the Institute for Management & Innovation and will build on the strengths of other key academic units at UTM, including the Departments of Geography, Economics, and Political Science, and the Institute of Communication, Culture, Information and Technology.

The objective of the MUI program is to respond to the growing job opportunities that exist for professionals trained in the fields of urban economic development and innovation through a cross-disciplinary approach. Upon graduation, MUI students will have acquired the analytical tools to enable them to produce effective economic development policies and plans, including a detailed knowledge of strategic management techniques, the role of real estate markets in local economic development, and critical tools for financial analysis.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Institute for Management & Innovation's additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university in social sciences, management/commerce, or a related field such as architecture or civil engineering, with a standing equivalent to a mid B in the final year of the program.
- Successful completion of 0.5 full-course equivalent (FCE) in an undergraduate statistics course.
- Letter of intent.
- Three letters of reference.
- A writing sample.

Program Requirements

- Students must complete a total of **9.5 FCEs** as follows:
 - 4.5 FCEs from other core courses (MUI 1010H, MUI 1020H, MUI 1030H, MUI 1040H, MUI 1050H, MUI 1060H, MUI 1075H, MUI 1080H, MUI 1090H)
 - 0.5 FCE summer internship (MUI 1100H)
 - 0.5 FCE capstone group project (MUI 2095H)
 - 4.0 elective FCEs chosen from the course lists below.

Program Length

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

Time Limit

3 years full-time

MUI 2040H	Real Estate Development
MUI 2055H	Cities, Industry, and the Environment
PLA 1801H	Urban Infrastructure Planning

Management & Innovation: Master of Urban Innovation MUI Courses

Required Core Courses (5.5 full-course equivalents [FCEs])

MUI 1010H	Introduction to Management of Urban Innovation
MUI 1020H	Civic Engagement and Economic Development
MUI 1030H	Urban and Regional Economic Development Theory
MUI 1040H	Socially Sustainable Cities: Theory, Policy, and Practice
MUI 1050H	Urban Politics
MUI 1060H	Local and Regional Government: Management and Policymaking
MUI 1075H	Digital Cities
MUI 1080H	Economic Development Planning
MUI 1090H	Technology, Strategy, Policy
MUI 1100H	Summer Internship
MUI 2095H	Capstone Course

Elective Courses (4.0 FCEs)

Students can take electives relating to any of the three groupings below: 1) Urban Innovation: Analysis and Policy; 2) Urban Politics and Governance; 3) Urban Sustainability and Infrastructure.

GLA 2018H	Innovation and the City
JPG 1607H	Geography of Competition
MUI 2010H	Sectoral Analysis
MUI 2020H	Microeconomics of Competitiveness
MUI 2030H	Planning for Jobs: Labour Market Transformations and Employment in 21st Century Cities
MUI 2050H	The Economics of Cities and Regions: Productivity, Technology, and Jobs
POL 2394H	Innovation and Knowledge Transfer in City Regions
RSM 2132H	Prosperity and Competitiveness

JPG 1512H	Place, Politics, and the Urban
MUI 2060H	Comparative Urban Politics
MUI 2070H	Planning and Governing the Metropolis
MUI 2080H	Intelligent Communities/Smart Cities
MUI 2090H	Public Finance in Canadian Cities

GGR 1610H	Geography of Finance and Financial Crisis
JMG 2020H	Big Data
JPG 2020H	Transportation: Historical and Geographic Perspectives

Management, Rotman School of Management

Management, Rotman School: Introduction

Faculty Affiliation

Management, Rotman School of Management

Degree Programs

Management

MBA

- Full-Time Master of Business Administration;
- Extended Full-Time Master of Business Administration (Morning/Evening);
- Executive Master of Business Administration
 - Fields:
 - Global Executive Master of Business Administration (GEMBA): the GEMBA is a field that is only offered as part of the dual degree
 - ◊ Dual Degree Program: Global Executive Master of Business Administration (University of Toronto) / Global Executive Master of Business Administration (Università Commerciale Luigi Bocconi)
 - Global Executive Master of Business Administration for Healthcare and the Life Sciences (GEMBA-HLS)

Finance

MF

Financial Risk Management

MFRM

Management Analytics

MMA

Combined Degree Programs

- [STG, BASc / MBA](#)
- [STG, JD / MBA](#)
- [STG, MBA / MGA](#)
- [STG, PharmD / MBA](#)

Collaborative Specializations

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

- [Contemporary East and Southeast Asian Studies](#)

- Management, MBA
- [Environmental Studies](#)
- Management, MBA

Diploma Programs

Professional Accounting

GDipPA

Overview

The Rotman School of Management is a catalyst for transformative learning, insights, and public engagement, bringing together diverse views and initiatives around a defining purpose: to create value for business and society. The School is located in Canada's financial, commercial, and cultural capital, and students are trained just blocks from Bay Street, Canada's business centre. The School takes full advantage of its strategic location by drawing on a rich pool of business leaders as teachers, mentors, and speakers. The School's strong academic reputation and close ties to the business community give graduates an edge in their search for a fulfilling career.

In the classroom, top-ranked faculty provide access to the latest research before it filters into consulting firms and major corporations. Learning at Rotman goes deep — combining a rigorous, model-based approach to decision making with a strong emphasis on personal development. The School attracts people from a wide range of countries and backgrounds, and provides them with a learning environment that is safe, welcoming, open, inclusive, and respectful to all.

Contact and Address

Rotman School of Management

Web

[General](#)
[Full-Time MBA](#)
[Morning/Evening MBA](#)
[Executive MBA](#)
[Global Executive MBA](#)
[Global Executive MBA for Healthcare and the Life Sciences](#)
[Master of Finance](#)
[Master of Financial Risk Management](#)
[Master of Management Analytics](#)
[Graduate Diploma in Professional Accounting](#)

Telephone

MBA: (416) 978-3499
 Morning/Evening MBA: (416) 946-5916
 Executive MBA: (416) 946-3022
 Global Executive MBA: (416) 946-3022
 Global Executive MBA for Healthcare and the Life Sciences: (416) 946-3638
 Master of Finance: (416) 946-5916
 Master of Financial Risk Management: (416) 978-2230

Master of Management Analytics: (416) 946-3638
 Graduate Diploma in Professional Accounting: (416) 978-2230

Address

Rotman School of Management
 University of Toronto
 105 St. George Street
 Toronto, Ontario M5S 3E6
 Canada

Management, Rotman School: Graduate Faculty

Full Members

Afeche, Philipp - BA, MS, PhD
 Agrawal, Ajay - BSc, MEng, MBA, PhD
 Amernic, Joel - BSc, MBA, CA
 Anastakis, Dimitry - PhD
 Bar-Isaac, Heski - BA, MSc, PhD
 Baron, Opher - BSc, MBA, PhD
 Baum-Snow, Nathaniel - AB, PhD
 Baum, Joel - BA, MBA, PhD
 Berman, Oded - BA, PhD
 Blum, Bernardo - BA, MA, MA, PhD
 Booth, Laurence - BSc, MBA, MA, DBA
 Bova, Francesco - BComm, MPH, MBA, MA, PhD
 Bowers, Anne - BA, MBA, PhD
 Brean, Donald - BA, MBA, MSc, PhD
 Callen, Jeffrey - BM, MBA, DPhil
 Casciaro, Tiziana - BA, MS, PhD
 Christianson, Marlys - MD, PhD
 Christoffersen, Susan - BA, MA, PhD (**Vice-Dean, Undergraduate and Pre-Experience Programs**)
 Corts, Kenneth - BA, MA, PhD (**Interim Dean and Graduate Chair**)
 Côte, Stéphane - BSc, MA, PhD (**Director, PhD Program**)
 Cunningham, William - BA, MPH, MS, MA, PhD
 Dart, Beatrix - MSt, MEc, PhD
 Davydenko, Sergei - MA, MSc, PhD
 DeCelles, Katherine - BS, PhD
 Doidge, Craig Andrew - BComm, MSc, PhD
 Dyck, Alexander - BA, PhD
 Edwards, Alexander - BAC, MS, MAcct, PhD
 Elitzur, Ramy - BA, MBA, PHM, PhD
 Elkamhi, Redouane - BE, MBA, PhD
 Florida, Richard - BA, PhD
 Galasso, Alberto - PhD
 Gans, Joshua - BEc, PhD
 Golden, Brian - BS, MS, PhD (**Academic Director, Full-Time MBA; Academic Director, GEMBA; Co-Academic Director, GEMBA-HLS**)
 Goldfarb, Avi - BA, MA, PhD
 Goldreich, David - BS, MS, MS, PhD
 Gomez, Rafael - BA, MA, MIR, PhD
 Hadfield, Gillian - BA, JD, PhD
 Han, Bing - PhD
 Han, Lu - BA, MA, PhD
 Hawkins, Scott - BA, MS, PhD
 Hejazi, Walid - BA, MA, PhD
 Hope, Ole-Kristian - MBA, PhD
 Hu, Ming - BS, MS, PhD
 Hull, John - BA, MA, MA, PhD
 Hyatt, Douglas - BA, MA, PhD

Kan, Raymond - BBA, MBA, DPhil
 Kaplan, Sarah - BA, MA, PhD
 Krass, Dmitry - BS, MEng, PhD (**Academic Director, MMA Program**)
 Latham, Gary - BA, MS, PhD
 Lederman, Mara - BA, PhD
 Lee, Byung Soo - BS, MA, PhD
 Lee, Spike - MS, PhD
 Leonardelli, Geoffrey - BA, MA, PhD
 Liao, Scott - MA, PhD
 Lu, Hai - MBA, PhD, PhD
 Mahrt-Smith, Jan - BSc, PhD
 Malekian, Azarakhsh - BSc, MS, PhD
 McCurdy, Tom - BA, MA, PhD
 McEvily, Bill - BS, PhD
 McGahan, Anita - BA, MA, MBA, PhD
 Mehta, Nitin - BTech, MS, MS, PhD (**Co-Academic Director, MMA Program**)
 Milner, Joseph - BSc, MS, PhD (**Vice-Dean, Full Time MBA**)
 Mitchell, Matthew - BS, MA, PhD
 Mitchell, William - BBA, PhD (**Academic Director, Full-Time MBA; Co-Academic Director, GEMBA-HLS Program**)
 Mohanram, Partha Sarathy - BTech, MBA, PhD
 Moldoveanu, Mihnea - BSc, MSc, DBA
 Moorthy, Sridhar - BSc, MBA, MS, PhD
 Ornthalalai, Chay - BEng, PhD (**Academic Director, MF Program**)
 Oxley, Joanne - BSc, MA, MBA, PhD
 Reuber, Becky - 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
 Shi, Mengze - BSc, MBA, PhD
 Silverman, Brian - AB, MA, SM, PhD
 Simutin, Mikhail - BA, PhD
 Smieliauskas, Waldemar - BS, MS, PhD
 Soberman, David - BSc, MBA, PhD
 Soman, Dilip - BE, MBA, PhD
 Strange, William - BA, MA, PhD
 Tilcsik, Andras - AB, AM, PhD
 Trefler, Daniel - BA, MPH, PhD
 Tsai, Claire - BBA, MBA, PhD
 Verma, Anil - BTech, MBA, PhD
 Wang, Kevin - BS, MA, PhD
 White, Alan - BEng, MBA, PhD
 Whyte, Glen - LLB, MA, MPH, MBA, PhD
 Wong, Franco - BA, MA, PhD
 Xie, Jia Lin - BA, MBA, PhD
 Xin, Baohua - PhD
 Yang, Liyan - BA, MA, PhD
 Zhang, Ping - BA, MAcct, MA, PhD
 Zhong, Chenbo - BA, MA, PhD

Members Emeriti

Amburgey, Terry - BS, MA, PhD
 Bird, Richard - BA, MA, PhD
 D'Cruz, Joseph - BA, MBA, PhD
 Dungan, D. Peter - BA, MA, PhD
 Fisher, James - BA, MBA
 Fleck, James - BA, DBA
 Halpern, Paul - BCom, MBA, PhD
 Horstmann, Ignatius - BA, PhD
 Kitunen, Joan - BBM, CA, CPA
 Kolodny, Harvey - BEng, MBA, PhD

Losell, Donna - BA, MBA
 Martin, Roger - AB, MBA
 Menzeffricke, Ulrich - MBA, DBA
 Mitchell, Andrew - BA, PhD
 Ondrack, Daniel - BComm, MBA, PhD
 Pauly, Peter - MA, PhD
 Wilson, Thomas - BA, AM, PhD

Associate Members

Ambachtsheer, Keith - BA, MA
 Ashraf, Nouman - BCom, MBA
 Barrette, Catherine - BCom, BCom
 Beatty, David - BA, MA
 Beausoleil, Angele - BAA, MA, PhD
 Boyko, Dana Marta - BA, MA
 Bryan, Kevin - BA, MS, MS, PhD
 Carr, Melanie - MD
 Celerier, Claire - MSc, PhD
 Corhay, Alexandre - BCom, MSc, PhD
 Dessaint, Olivier - MSc, MA, PhD
 Feinberg, Matthew - BA, MEd, PhD
 Geoffrey, Craig - BA, MBA
 Golubov, Andrey - MSc, PhD
 Inostroza Padilla, Nicolas - BS, MA, MA, PhD
 Khan, Michael - BCom
 Liu, Shannon - BS, BA, PhD
 MacKay, Alex - BSc, MA, PhD
 Manning, Ryann - BA, MA, PhD
 Martin, Joe - BA
 Oesch, John - BS, MSc, MBA, MEd, PhD (**Academic Director, Morning/Evening MBA Program**)
 Powers, Richard - BPHE, BA, LLB, MBA
 Reiter, Nayana - BBA, MSc, PhD
 Ruttan, Rachel - BA, MS, PhD
 Schneider, Manfred - BCom, MBA, JD, CA, CPA
 Shin, Jee-Eun - BA, MS
 Stapleton, Maureen - MBA
 Stojanovic, Dragan - BComm, MEd
 Tassone, Ralph - BCom, MEd
 Tolas, Fotini - BCom, MBA
 Trippen, Gerhard - MCS, PhD
 Wiecek, Irene - BComm, CA, CPA
 Yi, Irene - BBA, PhD
 Zhong, Zachary - PhD
 Zuliani, Elisa - BBM, CA (**Academic Director, Graduate Diploma in Professional Accounting**)

Management, Rotman School: Management MBA Full-Time

Full-Time MBA Program

Program Description

The Full-Time Rotman MBA is an intense program that combines 16 months of academic study with a 4-month opportunity for a paid internship. The program begins with a core curriculum that introduces Rotman's unique problem-solving and creative methodology with the fundamental disciplines of business. Students have the opportunity to customize their MBA experience by choosing to specialize in a particular interest through 14 areas, develop a broader skill set with over 90 elective courses, and accelerate their career

through the experiential learning component of the Flexible Internship program. As the practice of management evolves over time, so do the elective courses and areas that Rotman offers in any given year.

Students are required to complete the course *Applied Management: Placement* in conjunction with a work placement which may be done in the Summer, Fall, or Winter sessions. Depending on their academic area of study and career objectives, students will be guided on the best work term option to secure a placement with an employer. Throughout their work placement, students will benefit from enhanced communication with their host employers, tracking of project deliverables, and feedback from faculty supervisors.

Rotman offers three core strategic areas — an innovative curriculum, tailored career services, and the Self-Development Lab — to develop the skills and experiences students need to accelerate in their careers as high-value decision makers and business leaders. Whether their aim is to make a career switch, accelerate their current career, or start their own business, the Rotman MBA enables students to reach their professional and personal goals.

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.
- 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.
- If required, completion of the following English proficiency tests:
 - Test of English as a Foreign Language (TOEFL) Internet-based format: overall score of 100 with a minimum of 22 on the writing and speaking sections.
 - International English Language Testing System (IELTS) Academic: score of 7.0 with minimum 6.5 required for each component.
- A minimum of two years of full-time work experience is strongly recommended.
- The Full-Time MBA program starts annually in August. Applicants for the Full-Time program are encouraged to apply as per the [deadline dates](#) (beginning in October with a final deadline in May).

Program Requirements

- Within this 20-month program (two academic years), students must complete a total of **11.3 full-course equivalents (FCEs)** as follows:
 - Students must complete a structured sequence of required 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. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program.
 - Complete 0.5 full-course equivalent (FCE):

- A full-time internship work placement and RSM 1380H *Applied Management: Placement*, which includes in-class lectures and coursework assessments; **or**
- If they are not taking an internship, RSM 1381H *Applied Management: Independent Study*.
- Complete 6.5 elective FCEs at the 2000 level (equivalent to thirteen 2000-level courses).
- With the permission of the Academic Director, students may take up to four 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.
- Students can take two of the following experiential courses for credit (1.0 FCE): RSM 2700H *Independent Study Project*, RSM 2701H *Global Consulting Project*, RSM 2702H *OnBoard*, RSM 2703H *CityLab*, RSM 2705H *C-Suite*, and RSM 2709H *Global Practicum*. For students who take more than two experiential courses, these would not be counted towards the MBA degree requirements. Students should be aware that the following restrictions apply:
 - Students can only take RSM 2709H *Global Practicum* for credit one time.
 - Students can only take one from the following for credit: RSM 2702H, RSM 2703H, or RSM 2705H.
 - Students in combined degree programs with other schools or Faculties at the University of Toronto can take one experiential course for credit (0.5 FCE), unless exemption is granted.
 - Students taking part in an exchange with one of the partner schools for four half credits or more cannot take the experiential learning courses for credit. Students taking part in an exchange with one of the partner schools for three half credits or less can take one experiential learning course (0.5 FCE) for credit.

Program Length

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

Time Limit

3 years

Management, Rotman School: Management MBA Full-Time Courses

Required Courses to be Completed in Year 1

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 1165H	Leveraging Diverse Teams (Credit/No Credit)
RSM 1201H	Fundamentals of Strategic Management
RSM 1210H	Managerial Economics
RSM 1211H	Economic Environment of Business
RSM 1215H	Decision Making with Models and Data
RSM 1220H	Financial Accounting and Reporting: A Global Perspective
RSM 1222H	Managerial Accounting
RSM 1231H	Finance I: Global Markets and Valuation
RSM 1232H	Finance II: Corporate Finance
RSM 1240H	Operations Management
RSM 1250H	Managing Customer Value
RSM 1260H	Leading People in Organizations
RSM 1282H	Statistics for Management

In addition to the above Year 1 courses, **three 2000-level elective courses** must also be taken in Year 1.

Required Courses to be Completed After Year 1

RSM 1160H	Business Ethics
RSM 1380H or RSM 1381H	Applied Management: Placement or Applied Management: Independent Study
Ten 2000-level elective courses	

Elective Courses for the Full-Time and Morning/Evening MBA Programs

Not all courses are offered every year. Consult the department each session about [course offerings](#).

RSM 2000H	Multi-disciplinary Special Topics
RSM 2002Y	Research Project

RSM 2003H	Research Project
RSM 2008H	Creative Destruction Lab Intro
RSM 2011H	International Strategy
RSM 2012H	Entrepreneurship
RSM 2013Y	Creative Destruction Lab Advanced (prerequisite: RSM 2008H)
RSM 2015H	Non-Market Strategy
RSM 2016H	Data-Based Strategic Modelling
RSM 2017H	Pharmaceutical Strategy
RSM 2018H	Strategy in Emerging Markets
RSM 2019H	Corporation 360
RSM 2020H	Health Sector Strategy and Organizations
RSM 2021H	Corporate Strategy
RSM 2023H	Strategic Change and Implementation
RSM 2030H	Canadian Business History
RSM 2052H	Management Consulting
RSM 2054H	Technology Strategy
RSM 2055H	Cooperative Strategy
RSM 2056H	Competitive Strategic Analysis
RSM 2058H	Communicating Strategy
RSM 2059H	Healthcare and Life Sciences Consulting: Field Application Project
RSM 2060H	Digital Strategy
RSM 2061H	Strategic Networks
RSM 2062H	Management Consulting Practicum
RSM 2063H	Catastrophic Failure in Organizations
RSM 2081H	Social Entrepreneurship
RSM 2083H	Special Topics in Strategic Management
RSM 2085H	Healthcare Innovation
RSM 2087H	Multi-Disciplinary Special Topics
RSM 2088H	Designing for Equality
RSM 2099H	Special Topics in Strategic Management
RSM 2109H	Rotman Study Tour

RSM 2113H	Model-Based Decision Making in Practice
RSM 2116H	Special Topics in Business Economics
RSM 2120H	Health Policy and Health Care Markets
RSM 2122H	Clean Energy: Policy Context and Business Opportunities
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 2132H	Business and the City
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 2300H	Corporate Financing
RSM 2301H	Financial Management
RSM 2302H	Security Analysis and Portfolio Management
RSM 2303H	Risk Modelling and Financial Trading Strategies
RSM 2304H	Financial Institutions and Capital Markets
RSM 2305H	International Financial Management
RSM 2306H	Options and Futures Markets
RSM 2307H	Advanced Derivatives
RSM 2308H	Financial Risk Management
RSM 2309H	Mergers and Acquisitions
RSM 2310H	Analysis and Management of Fixed Income Securities
RSM 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	How Banks Work: Management in a New Technological Age
RSM 2318H	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 2326H	How Banks Work: Management in a New Technological Age
RSM 2327H	Islamic Finance in Canada
RSM 2401H	Data and Information Management for Business Analytics
RSM 2405H	Supply Chain Management
RSM 2406H	Operations Management Strategy
RSM 2407H	Services Operations Management
RSM 2408H	Modeling and Optimization for Decision Making
RSM 2409H	Management Analytics
RSM 2410H	Analytics and Operations Consulting
RSM 2415H	Special Topics in Management Science
RSM 2416H	Special Topics in Operations Management
RSM 2417H	Special Topics in Operations Management
RSM 2500H	Marketing Strategy
RSM 2504H	Consumer Behaviour
RSM 2505H	Strategic Marketing Communications
RSM 2506H	Marketing Research
RSM 2508H	Sales Management
RSM 2511H	Fintech Marketing: Innovation in the Marketing of Financial Services
RSM 2512H	Branding
RSM 2513H	Pricing
RSM 2515H	Special Topics in Marketing
RSM 2516H	Special Topics in Marketing
RSM 2517H	Design, Foresight, and Innovation
RSM 2518H	Special Topics in Marketing

RSM 2519H	Managing Customer Value 2.0
RSM 2520H	Special Topics in Marketing
RSM 2521H	Marketing Using Information Technology
RSM 2522H	Marketing and Behavioural Economics
RSM 2523H	Business Design Fundamentals
RSM 2524H	Business Design Practicum
RSM 2525H	One to One Marketing
RSM 2530H	Special Topics in Marketing
RSM 2531H	Special Topics in Marketing
RSM 2532H	Special Topics in Marketing
RSM 2601H	Organization Design
RSM 2603H	Advanced Negotiations and Conflict Management
RSM 2604H	Managerial Negotiations
RSM 2606H	Designing New Work Organizations
RSM 2609H	Aligning People and Strategy
RSM 2612H	Managing Talent for Global Operations
RSM 2615H	Special Topics in Organizational Behaviour and Human Resource Management
RSM 2618H	The Socially Intelligent Manager
RSM 2619H	Power and Influence in Organizations
RSM 2620H	Leading Teams
RSM 2621H	Effective Leadership
RSM 2625H	Business Problem Solving: A Model-Based Approach
RSM 2640H	Leading Social Innovation
RSM 2700H	Independent Study Project (Honours/Pass/Fail)
RSM 2701H	Global Consulting Project (Honours/Pass/Fail)
RSM 2702H	OnBoard (Honours/Pass/Fail)
RSM 2703H	CityLab (Honours/Pass/Fail)
RSM 2705H	C-Suite (Honours/Pass/Fail)
RSM 2709H	Global Practicum (Honours/Pass/Fail)
RSM 2913H	Getting It Done®
RSM 2918H	Multidisciplinary Special Topics

RSM 2920H	Top Manager's Perspective
RSM 2922H	The Opposable Mind
RSM 2923H	Business Problem Solving
JDM 3619H	Digital Media Distribution (Credit/No Credit)

Management, Rotman School: Management MBA Extended Full-Time

Extended Full-Time MBA Program (Morning/Evening)

Program Description

The Rotman Morning/Evening MBA programs are designed for working professionals in the Greater Toronto Area. The 32-month, cohort-based format allows working professionals to continue working while studying for their MBA. Students may explore new directions, expand leadership skills, and build close ties with a lifelong network. There are two program options:

- The Morning MBA allows working professionals to complete their master's before work — from 7:00 to 8:59 am, two mornings a week.
- The Evening MBA allows students to get a fresh perspective on real-world challenges from globally renowned faculty after work — from 6:30 to 8:30 pm, two evenings a week.

In the second half of the MBA program, students have the choice to specialize in a career path with a range of electives, including those taught during regular working hours.

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).
- A minimum of two years of full-time work experience.
- Two professional references.
- Resumé.
- Essays.
- Interview.
- If required, completion of the following English proficiency tests:
 - Test of English as a Foreign Language (TOEFL) Internet-based format: overall score of 100 with a minimum of 22 on the writing and speaking sections.
 - International English Language Testing System (IELTS) Academic: score of 7.0 with minimum 6.5 required for each component.
- The Extended Full-Time (Morning/Evening) MBA programs start annually in August. Applicants 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 delivered over a 32-month period.
- Students complete requirements through either the Morning or Evening program options.
- **Coursework:** students must complete required and elective courses as follows:
 - **Required:** Students must complete a structured sequence of required 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. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program.
 - **Elective:** 5.0 full-course equivalents (FCEs) at the 2000 level (equivalent to ten 2000-level courses). With the permission of the Academic Director, Morning/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/Evening MBA Programs.

Program Length

8 sessions (3 years) (typical registration sequence: F/W/S/F/W/S/F/W)

Time Limit

3 years

Management, Rotman School: Management MBA Extended Full-Time Courses

Required Courses

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 1165H	Leveraging Diverse Teams (Credit/No Credit)
RSM 1201H	Fundamentals of Strategic Management
RSM 1210H	Managerial Economics
RSM 1211H	Economic Environment of Business
RSM 1215H	Decision Making with Models and Data
RSM 1220H	Financial Accounting and Reporting: A Global Perspective
RSM 1222H	Managerial Accounting
RSM 1231H	Finance I: Global Markets and Valuation
RSM 1232H	Finance II: Corporate Finance
RSM 1240H	Operations Management
RSM 1250H	Managing Customer Value
RSM 1260H	Leading People in Organizations
RSM 1282H	Statistics for Management
RSM 1365H ⁰	Leadership Development Practicum (Credit/No Credit)

⁰ Course that may continue over a program. Credit is given when the course is completed.

Elective Courses

[See the full-time MBA course section.](#)

Management, Rotman School: Management Executive MBA

Executive Master of Business Administration

Program Description

The Rotman One-Year Executive MBA provides mid-to-senior working professionals and entrepreneurs who have management experience with the business knowledge and leadership skills they need to take their careers to the next level. The innovative 13-month curriculum, taught by world-class faculty, is focused on developing senior management strategy, decision-making, and leadership skills.

Classes take place every other Friday and Saturday, with four week-long residential modules spread throughout the program so that students maximize the learning experience while minimizing time away from work.

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 current full-time employment and significant professional work and managerial experience:
 - 8+ years of full-time work experience.
 - 3+ years in a mid-to-senior management role.
- Demonstrated teamwork and leadership skills.
- People and/or project management experience.
- Admissions interview.
- A recognized undergraduate degree or equivalent.
- 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).
- If required, completion of the following English proficiency tests:
 - Test of English as a Foreign Language (TOEFL) Internet-based format: overall score of 100 with a minimum of 22 on the writing and speaking sections.
 - International English Language Testing System (IELTS) Academic: score of 7.0 with minimum 6.5 required for each component.
- Applicants who meet all the minimum admission requirements 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

- Within this 13-month program:
 - Students must complete 23 courses, including the set of 14 core courses, with an accumulated credit weighting of 11.50.
 - Students must complete a structured sequence of courses. No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program.
 - At the discretion of the Academic Director and the Vice-Dean, MBA Programs, up to four of the non-core courses may be substituted with elective courses from the list of electives offered for the Full-Time MBA and Extended Full-Time MBA (Morning/Evening) Programs. Students may also substitute up to two of the non-core courses with elective courses offered for the Global Executive Master of Business Administration (GEMBA) field. Note that the GEMBA field is only offered as part of the dual degree with Bocconi University. Available GEMBA electives vary each year. Courses will be communicated to students upon program start.
 - With the permission of the Academic Director, students in good standing may apply to participate and take up to one course in an international exchange program approved by the University of Toronto. Courses selected are subject to the approval of the Academic Director.
 - The Executive MBA is offered on Fridays and weekends every other week, plus four week-long residential modules and study periods.

Program Length

4 sessions (13 months) full-time (typical registration sequence: F/W/S/F)

Time Limit

3 years

Management, Rotman School: Management Executive MBA Courses

Required Courses

Core Courses

RSM 5001H	Strategy 1
RSM 5011H ⁰	Capstone Project
RSM 5101H	Economics 1
RSM 5102H	Economics 2
RSM 5201H	Accounting 1
RSM 5301H	Finance 1
RSM 5302H	Finance 2
RSM 5401H	Business Operations
RSM 5501H	Marketing 1
RSM 5600H	Personal Leadership
RSM 5602H	Negotiations
RSM 5603H	The Business Environment: Ethics
RSM 5604H ⁰	Leadership Development Practicum (Credit/No Credit)
RSM 5801H	Quantitative Reasoning for Management

Non-core Courses

At the discretion of the Academic Director and the Vice-Dean, MBA Programs, up to four of the non-core courses may be substituted with elective courses from the [list of electives](#) offered for the Full-Time MBA and Extended Full-Time MBA (Morning/Evening) Programs. Students may also substitute up to two of the non-core courses with elective courses offered for the Global Executive Master of Business Administration (GEMBA) field. Note that the GEMBA field is only offered as part of the dual degree with Bocconi University. Available GEMBA electives vary each year. Courses will be communicated to students upon program start.

RSM 5002H	Strategy 2
RSM 5006H	Corporate Governance
RSM 5007H	International Business
RSM 5009H	Topics in Strategic Management
RSM 5202H	Accounting 2
RSM 5291H	Business Problem Solving: A Model-Based Approach
RSM 5502H	Marketing 2
RSM 5601H	Organizational Leadership
RSM 5605H	The Thoughtful Leader
RSM 5609H	Special Topics in Organizational Behaviour

⁰ Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

Management, Rotman School: Management Executive MBA; Field: Global (Dual Degree)

Dual Degree Program: Global Executive Master of Business Administration (University of Toronto / Bocconi University)

Program Description

The Global Executive MBA (GEMBA) field may only be taken as part of a dual degree offered by the University of Toronto's Rotman School of Management and Bocconi University's [SDA Bocconi](#). This offering is commonly referred to as the "Rotman-SDA Bocconi Global Executive MBA."

Spanning 18 months and seven business centres across four continents, the program accepts applications from full-time professionals in for-profit businesses, not-for-profit enterprises, research institutes, and entrepreneurial ventures from around the globe. The Rotman-SDA Bocconi GEMBA will change the way students think, network, and do business in some of the world's largest markets: North America, East Asia, South Asia, Europe, and Latin America.

Upon successful completion of the degree requirements of both programs, students will receive an MBA from the Rotman School and a Global Executive MBA from SDA Bocconi.

Contact

www.rotman.utoronto.ca/Degrees/MastersPrograms/MBAPrograms/GEMBA
www.sdbocconi.it/en/mba-executive-mba/global-executive-mba

Rotman-SDA Bocconi Global Executive MBA Program
 Rotman School of Management, University of Toronto
 Email: gemba@rotman.utoronto.ca

Rotman-SDA Bocconi Global Executive MBA Program
 SDA Bocconi School of Management, Bocconi University
 Email: info@sdabocconi.it

Application Process

- Applicants may apply to either the Rotman School or SDA Bocconi School.
- Applicants applying through Rotman must [submit their application online](#).

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.
- Five years of work experience with a minimum of two years at the management level (people, project, and/or budget management experience).
- Recognized undergraduate degree or equivalent.
- Applicants must obtain a satisfactory score for one of the following tests: the Rotman Executive Diagnostic Test (EDT), the SDA Bocconi diagnostic test, the Graduate Management Admission Test (GMAT), or the Graduate Record Examination (GRE; General Test). Test results are valid for five years. For further details, contact the admissions office.
- If required, completion of the following English proficiency tests:
 - Test of English as a Foreign Language (TOEFL) Internet-based format: overall score of 100 with a minimum of 22 on the writing and speaking sections.
 - International English Language Testing System (IELTS) Academic: score of 7.0 with minimum 6.5 required for each component.
- Current full-time employment.
- Ability to work in international teams and demonstrated leadership skills.

Program Requirements

Students complete 10 modules of between 5.5 and 8.5 days each, held in various cities. Within this 18-month dual degree program:

- Students must complete 26 courses worth **12.25 full-course equivalents (FCEs)** consisting of 24 required courses and 2 electives. The 2 electives may be taken through the Rotman School or Bocconi School. The available Rotman electives will be communicated to students upon program start.
- See the list of required Rotman courses below.

Program Length

5 sessions (18 months) full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years

Management, Rotman School: Management Executive MBA; Field: Global (Dual Degree) Courses

Required Courses for the Dual Degree Program, Global Executive MBA

RSM 1360H	Leading People in Organizations
RSM 2012H	Entrepreneurship
RSM 2023H	Strategic Change and Implementation
RSM 2524H	Business Design Practicum
RSM 2615H	Special Topics in Organizational Behaviour and Human Resource Management
RSM 5001H	Strategy 1
RSM 5002H	Strategy 2
RSM 5007H	International Business
RSM 5008H (0.25 FCE)	Corporate Governance
RSM 5101H	Economics 1
RSM 5201H	Accounting 1
RSM 5202H	Accounting 2
RSM 5301H	Finance 1
RSM 5302H	Finance 2
RSM 5304H	Creating Value Through Acquisitions and Private Equity
RSM 5401H	Business Operations
RSM 5501H	Marketing 1
RSM 5602H	Negotiations
RSM 5603H	The Business Environment: Ethics
RSM 5604H ⁰	Leadership Development Practicum (Credit/No Credit)
RSM 5607H (0.25 FCE)	Leveraging Diverse Teams (Honours/Pass/Fail)
RSM 5608H (0.25 FCE)	Business Analytics

RSM 5801H	Quantitative Reasoning for Management
RSM 5901H	Managing Innovation

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

Management, Rotman School: Management Executive MBA; Field: Global Healthcare and the Life Sciences

Field: Global Executive Master of Business Administration for Healthcare and the Life Sciences

Program Description

The intensive 18-month Global Executive MBA for Healthcare and the Life Sciences (GEMBA-HLS) is designed for working professionals in the healthcare and life sciences industries. This field of study immerses students in key healthcare and life sciences clusters around the world. By learning from leading faculty and experienced sector leaders, students gain the knowledge and skills needed for success. While exploring current and future best practices globally, students are guided through an in-depth assessment of their own capabilities with a view to becoming more impactful leaders.

Over the 18 months of the program, students will partake in six international modules in some of the world's key healthcare and life sciences markets. The program is delivered in a blended model, primarily face-to-face, supplemented with online learning. It leverages the strengths of the Rotman School, as well as relationships with the University of Toronto and the global healthcare and life sciences communities. Located on the edge of Toronto's medical discovery district, Rotman is uniquely positioned to play a leading role in the management innovations taking place in pharmaceuticals and biotechnology, medical technology, medical informatics, telemedicine, insurance, patient engagement, long-term care, and health system design.

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 and managerial experience in healthcare or the life sciences:
 - 8+ years of full-time work experience.
 - 3+ years in a mid-to-senior leadership, management, or administrative role (or equivalent).
 - Demonstrated teamwork and leadership skills.
- A base of knowledge of healthcare or life sciences organizations.
- Evidence of academic achievement.
- Applicants must obtain either a satisfactory score for the Rotman 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. See [further details](#) or contact the admissions office.

- If required, completion of the following English proficiency tests:
 - Test of English as a Foreign Language (TOEFL)
Internet-based format: overall score of 100 with a minimum of 22 on the writing and speaking sections.
 - International English Language Testing System (IELTS)
Academic: score of 7.0 with minimum 6.5 required for each component.
- Applicants who meet all the minimum admission requirements will be assessed by the admissions committee on the basis of grades, standardized test scores, references, essays, professional experience, and a personal interview.
- Please note that special program fees apply for this program.

Program Requirements

- Within this 18-month program, students must successfully complete a structured sequence of 23 courses with an accumulated credit weighting of 11.50. No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program.
- One or more of the course(s) may be substituted with course(s) offered in the regular MBA program at the discretion of the Academic Directors.
- The Global Executive MBA for Healthcare and the Life Sciences follows a blended model of delivery; i.e., a mix of face-to-face and online. It is offered during six residential modules (of between 7 and 11 days each) and study periods, held in various cities. Supplemental curriculum hours are delivered online.

Program Length

5 sessions (18 months) full-time (typical registration sequence: F/W/S/F/W)

Time Limit

3 years

Management, Rotman School: Management Executive MBA; Field: Global Healthcare and the Life Sciences Courses

Required Courses

*At the discretion of the Academic Director and the Vice-Dean, MBA Programs, up to four of these courses may be substituted with courses from the [list of electives](#) offered for the Full-Time MBA and Extended Full-Time MBA (Morning/Evening MBA) Programs.

RSM 2020H	Health Sector Strategy and Organizations
--------------	--

RSM 2083H	Special Topics in Strategic Management
RSM 2522H	Marketing and Behavioural Economics
RSM 2524H	Business Design Practicum
RSM 5001H	Strategy 1
RSM 5007H	International Business
RSM 5013H	Digital Health
RSM 5014H	Data Analytics and Strategic Decision-Making in Health and Life Sciences
RSM 5015H ⁰	Capstone Project
RSM 5023H ⁰	Strategic Change and Implementation
RSM 5101H	Economics 1
RSM 5108H	Decision-Making with Models and Data
RSM 5109H ⁰	Rotman Study Tour
RSM 5201H	Accounting 1
RSM 5301H	Finance 1
RSM 5303H	Corporate Finance and Corporate Governance for Healthcare and the Life Sciences
RSM 5401H	Business Operations
RSM 5501H	Marketing 1
RSM 5600H	Personal Leadership
RSM 5602H	Negotiations
RSM 5603H	The Business Environment: Ethics
RSM 5604H ⁰	Leadership Development Practicum (Credit/No Credit)
RSM 5801H	Quantitative Reasoning for Management

⁰ Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

Management, Rotman School: Finance MF

Master of Finance

Program Description

The Master of Finance (MF) program provides the most in-depth theoretical and applied finance training currently available. Aimed at experienced working professionals, the program is delivered on Wednesday evenings and alternating Saturdays over 20 months. This enables students to advance their career without leaving work, and be able to apply the

knowledge learned in the classroom immediately in the workplace. Students come from a variety of backgrounds such as financial risk, portfolio management, corporate finance, equity research, accounting, sales and trading, insurance, pensions, and legal settings.

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.
- A satisfactory score on the Graduate Management Admissions Test (GMAT) or GRE (Graduate Record Examination; General Test). Exemptions from the GMAT/GRE requirement are granted to applicants who have:
 - Passed the Common Final Exam (CFE) (or former UFE) for a Certified Professional Accountant (CPA) designation.
 - Passed at least the Level II examination of the Chartered Financial Analyst (CFA) designation.
 - Graduated from the University of Toronto with high distinction (cumulative grade point average of 3.5 or higher).
 - Attained the professional designation in Engineering (PEng) or in Actuarial Sciences (ACIA or FCIA).
- At least two years of full-time work experience in finance or a finance-related field is strongly recommended. Applicants who do not have the recommended work experience will be considered on a case-by-case basis, particularly if accompanied by demonstrated exceptional academic and professional potential.
- 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.

Program Requirements

- Within this 20-month program (two academic years):
 - Students must complete a structured sequence of **5.75 full-course equivalents (FCEs)** (11.5 half-course equivalents) taken over five sessions. No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program.

RSM 4113H (0.25 FCE)	Macroeconomics for Finance Professionals
RSM 4216H	Financial Reporting and Financial Statement Analysis
RSM 4220H	Advanced Accounting Topics for Finance
RSM 4310H	Foundations of Finance
RSM 4314H	Risk Management and Financial Institutions

RSM 4315H	Investment Banking and Corporate Valuation
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 4324H	Innovations in Financial Technology

[Consult the departmental website for course descriptions.](#)

Program Length

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

Time Limit

3 years

Management, Rotman School: Financial Risk Management MFRM

Master of Financial Risk Management

Program Description

The Master of Financial Risk Management (MFRM) is designed to prepare students who excel at finance and quantitative analysis for careers in this in-demand sector. A bridge between academic and professional life, this full-time, ten-month program allows students to fast-track into the finance industry — giving them a competitive edge over applicants with only an undergraduate degree.

Students will gain a better understanding of the different types of risk, the regulatory environment, and how different financial institutions manage uncertainty. They consider the ways risk is measured and managed, looking at systems and models currently used within the financial sector.

Students have the opportunity to gain real-world experience during the Risk Management Project which takes place midway through the program. They will work on a real risk issue that is relevant and of interest to financial institutions. During the nine-week project, students will be taken out of the classroom and into industry, working with practising risk management professionals.

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.
- A recognized four-year undergraduate degree or equivalent:** A business, commerce, economics, mathematics, engineering, or actuarial science degree is preferred. However, other four-year undergraduate degrees will be considered if there is evidence of strong quantitative skills with a minimum B average in calculus, linear algebra, and statistics or econometrics.
- Quantitative proficiency**, usually demonstrated through the completion of university-level courses with a minimum B average, in calculus, linear algebra, and statistics and/or econometrics during the undergraduate degree.
- Two academic references.
- Essays (written essay, video questions, and real-time written response).
- English-language proficiency (if required).
- Prerequisite knowledge in the following areas, usually demonstrated through the completion of university-level courses:**
 - Foundations of finance.
 - Financial accounting.
 - Investments.
 - Financial derivatives.
 - Applicants who have not completed courses in one or more of these subject areas may be offered admission conditional on successful completion of one or more qualifying examinations demonstrating equivalent knowledge.
- Applicants who meet all the criteria will be assessed on the basis of their application essays, answers to video questions, grades, and references by the admissions committee. Selected applicants will then be invited for an admission interview. The admission decision will be based on both submitted materials and interview performance.

Program Requirements

Within this ten-month, full-time program (three sessions), students must complete a structured sequence of 11 half courses (**5.5 full-course equivalents [FCEs]**). No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program. The courses in the program are:

RSM 6301H	Topics in Financial Risk
RSM 6302H	Financial Markets, Risk, and Institutions
RSM 6303H	Regulation of Financial Institutions
RSM 6304H	Operational Risk
RSM 6305H	Credit Risk
RSM 6306H	Probabilistic Modelling for Risk-Informed Decisions
RSM 6307H	Macroeconomics for Financial Risk Management Professionals

RSM 6308H	Advanced Investments
RSM 6310H	Derivative Models for Risk Management
RSM 6311H	Rotman Risk Management Project
RSM 6313H	Innovations in Financial Technology

Program Length

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

Time Limit

3 years full-time

Management, Rotman School: Management Analytics MMA

Master of Management Analytics

Program Description

The professional Master of Management Analytics (MMA) degree program offers a curriculum that combines analytical depth with a focus on business issues and applications. Analytical depth is provided by courses on acquisition and structuring of data, predictive and prescriptive analytics, machine learning and big data methods, AI and deep learning, decision analysis, and simulation modelling. Courses applying analytics to business feature the use of analytics in marketing, operations, supply chain management, accounting, and finance. Students are exposed to real-life application of management analytics through the analytics practicum.

The MMA degree program is offered over two sessions using a cohort-based model. Students must complete a structured sequence of 13 half-course equivalents (6.5 full-course equivalents [FCEs]) on a full-time basis. The MMA is designed for pre-experience graduates.

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.
- Appropriate four-year undergraduate degree or equivalent:** Given the nature of the MMA program, degrees in Computer Science, Statistics, Mathematics, Engineering, Physical Science, Economics, and Commerce will be preferred, but degrees from any program where there is a significant quantitative and computational component will be considered.
- Quantitative proficiency:** Evidence of a high level of proficiency (a minimum B average) in quantitative subjects is required. Mastery of mathematics is essential including, at a minimum, calculus and linear algebra, as are courses covering probability and statistics. In cases where evidence

of quantitative proficiency is not obvious, applicants must provide supplemental evidence.

- Computational proficiency:** Demonstrated proficiency in computer programming. This may be demonstrated through a minimum B average in one or more courses in computer science or in courses relying extensively on computer programming. In cases where evidence of computational proficiency is not obvious, applicants must provide supplemental evidence.
- English-language proficiency:** Applicants must demonstrate the ability to communicate in English in one of the following ways:
 - An undergraduate or graduate degree from a university at which the language of instruction and examination was English.
 - 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 100. The International English Language Testing System (IELTS) may be considered in special circumstances with a minimum score of 7.0 required.
- Two academic references.
- Essays (written essay, video questions, and real-time written response).
- All successful applicants are expected to demonstrate effective oral and written communication skills.
- Demonstration of academic ability; a high Graduate Management Admission (GMAT) or Graduate Record Examination (GRE) score is not mandatory but encouraged.
- Applicants who meet all the criteria will be assessed on the basis of their application essays, answers to the video questions, grades, and references by the admissions committee. Selected applicants will then be invited for an admission interview. The admission decision will be based on both submitted materials and interview performance.

Program Requirements

- Students must be on campus by early to mid-August.
- Within this two-session program, students must complete a structured sequence of **6.5 full-course equivalents (FCEs)** (13 half-course equivalents). No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program. The courses in the program are:

RSM 8224H	Analytic Insights Using Accounting and Financial Data
RSM 8411H	Structuring and Visualizing Data for Analytics
RSM 8413H	Big Data Analytics
RSM 8414H	Tools for Probabilistic Models and Prescriptive Analytics
RSM 8423H	Optimizing Supply Chain Management and Logistics
RSM 8431Y	Analytics Colloquia
RSM 8432H ⁰	Management Analytics Practicum
RSM 8502H	Data-Based Management Decisions

RSM 8512H	Modeling Tools for Predictive Analytics
RSM 8521H	Leveraging AI and Deep Learning Tools in Marketing
RSM 8522H	Analytics for Marketing Strategy
RSM 8901H	Analytics in Management

Program Length

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

Time Limit

3 years full-time

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

Management, Rotman School: Professional Accounting GDipPA

Graduate Diploma in Professional Accounting

Program Description

The **Rotman Graduate Diploma in Professional Accounting (GDipPA)** is an excellent way to gain advanced standing in the pursuit of a Chartered Professional Accountant (CPA) certification. This 12-week summer program deepens knowledge of accounting while satisfying four modules of the CPA Professional Education Program (CPA PEP). The program helps prepare students for the Common Final Examination (CFE) and allows them to advance straight to the Capstone 1 module in the CPA PEP.

The program takes advantage of the depth of accounting expertise at the Rotman School as well as its long-standing commitment to professional accounting education.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy additional admission requirements stated below.
- Admission to the program is available to students in Year 4 or to recent graduates of the following University of Toronto undergraduate programs:
 - Rotman's Bachelor of Commerce (Accounting Specialist, Public Accounting Stream).
 - University of Toronto Mississauga's Bachelor of Commerce (Accounting Specialist).
 - University of Toronto Scarborough's Bachelor of Business Administration (Specialist in Management and Accounting).
- University of Toronto students who are not currently completing one of the accounting specialist programs are required to take [specific courses](#) to be considered as applicants to the GDipPA program.

- Applicants from outside the University of Toronto: The accreditation that the University of Toronto has received from CPA Ontario specifies that only candidates with University of Toronto degrees, or equivalent, may be given advanced standing in the CPA Professional Education Program (PEP). In determining whether a degree from another Canadian university is equivalent, the admissions committee will review each submitted application individually. Prior to applying, applicants are encouraged to ensure that the courses they have taken meet the requirements for entry into CPA PEP.
- Course requirements:**
 - Successful completion of all the courses required for entry into the CPA Professional Education Program (CPA PEP) as determined with CPA Ontario:
 - Required core courses: a minimum overall average of 70%.
 - Each individual core course: a minimum grade of 60%.
 - Each individual non-core course: a passing grade or 50%, whichever is higher.
- Applicants who meet all the criteria will be assessed on the basis of their application package and grades by the admissions committee. Selected applicants may be invited for an admission interview.

Program Requirements

Students must complete a structured sequence of **2.5 full-course equivalents (FCEs)** (five half courses). No advanced standing will be granted for previous academic work completed or professional designations earned. Students who are unable to follow courses in their prescribed order must attain special approval from the Academic Director in order to continue in the program. The courses in the program are:

RSM 7201H	Advanced Financial Reporting
RSM 7202H	Advanced Taxation
RSM 7203H	Advanced Topics in Assurance and Control
RSM 7301H	Finance and Professional Practice
RSM 7204H	Integration and Analysis

Program Length

1 session full-time (typical registration sequence: S)

Time Limit

2 years

Management, Tri-campus

Management, Tri-campus: Introduction

Faculty Affiliation

Management, Tri-campus

Degree Programs

Management

PhD

- Fields:
 - Accounting;
 - Business Economics;
 - Finance;
 - Marketing;
 - Operations Management;
 - Organizational Behaviour and Human Resources Management;
 - Strategic Management

Collaborative Specializations

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

- [Environmental Studies](#)
 - Management, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Management, PhD

Overview

The PhD in Management at the University of Toronto is a vibrant and intellectually rich environment for those interested in developing new insights in management scholarship. There is a close-knit community of scholars who value and celebrate insightful, breakthrough research.

The PhD is a challenging program which features coursework, cutting-edge research training, and close working relationships with some of the best management academics in the world. Students work closely with faculty in a research-led culture which emphasizes rigor, creativity, and innovation. The curriculum is carefully designed to support students as publishing scholars as early as possible in their doctoral studies. The success of this program is evidenced in placements in leading business schools and the impressive careers of its graduates.

Contact and Address

Graduate Department of Management

Web: www.rotman.utoronto.ca/Degrees/PhD
 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

Management, Tri-campus: 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
 Amernic, Joel - BSc, MBA, CA
 Anastakis, Dimitry - PhD
 Averbakh, Igor - MSc, PhD
 Bar-Isaac, Heski - BA, MSc, PhD
 Baron, Opher - BSc, MBA, PhD
 Baum-Snow, Nathaniel - AB, PhD
 Baum, Joel - BA, MBA, PhD
 Berman, Oded - BA, PhD
 Blum, Bernardo - BA, MA, MA, PhD
 Booth, Laurence - BSc, MBA, MA, DBA
 Borins, Sandford - BA, PhD
 Bova, Francesco - BComm, MPH, MBA, MA, PhD
 Bowers, Anne - BA, MBA, PhD
 Brean, Donald - BA, MBA, MSc, PhD
 Brooks, Leonard - BCom, MBA, CA, CPA
 Callen, Jeffrey - BM, MBA, DPhil
 Casciaro, Tiziana - BA, MS, PhD
 Chandra, Ambarish - BMATH, MEc, PhD
 Chen, Feng - MA, PhD, CPA, CGA
 Christianson, Marlys - MD, PhD
 Christoffersen, Susan - BA, MA, PhD (**Vice-Dean, Undergraduate and Pre-Experience Programs**)
 Connelly, Brian Samuel - BA, PhD
 Corts, Kenneth - BA, MA, PhD (**Interim Dean and Graduate Chair**)
 Côte, Stéphane - BSc, MA, PhD (**Academic Director, PhD Program**)
 Cunningham, William - BA, MPH, MS, MA, PhD
 Davydenko, Sergei - MA, MSc, PhD
 DeCelles, Katherine - BS, PhD
 Doidge, Craig Andrew - BComm, MSc, PhD
 Edwards, Alexander - BAC, MS, MAcct, PhD
 Elitzur, Ramy - BA, MBA, PHM, PhD
 Elkamhi, Redouane - BE, MBA, PhD
 Dyck, Alexander - BA, PhD
 Florida, Richard - BA, 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 (**Academic Director, Full-Time MBA; Academic Director, GEMBA; Co-Academic Director, GEMBA-HLS**)

Goldfarb, Avi - BA, MA, PhD

Goldreich, David - BS, MS, MS, PhD

Han, Bing - PhD

Han, Lu - BA, MA, PhD

Hansen, Samantha - BA, MA, PhD

Hawkins, Scott - BA, MS, PhD

Hejazi, Walid - BA, MA, PhD

Hirsh, Jacob - BSc, MA, PhD

Hope, Ole-Kristian - MBA, PhD

Hossain, Tanjim - BA, BS, PhD

Hu, Ming - BS, MS, PhD

Hull, John - BA, MA, MA, PhD

Hyatt, Douglas - BA, MA, PhD

Kan, Raymond - BBA, MBA, DPhil

Kang, Sonia - BSc, MA, PhD

Kaplan, Sarah - BA, MA, PhD

Kramer, Lisa - BBA, PhD

Krass, Dmitry - BS, MEng, PhD (**Academic Director, MMA Program**)

Lacetera, Nicola - PhD

Latham, Gary - BA, MS, PhD

Lederman, Mara - BA, PhD

Lee, Byung Soo - BS, MA, PhD

Lee, Spike - MS, PhD

Leonardelli, Geoffrey - BA, MA, PhD

Liao, Scott - MA, PhD

Li, Yue - BSc, MBA, PhD

Lu, Hai - MBA, PhD, PhD

Maglio III, Sam James - AB, PhD

Mahrt-Smith, Jan - BSc, PhD

Malekian, Azarakhsh - BSc, MS, PhD

McCarthy, Julie - BA, MPsy, PhD

McCurdy, Tom - BA, MA, PhD

McEvily, Bill - BS, PhD

McGahan, Anita - BA, MA, MBA, PhD

Milner, Joseph - BSc, MS, PhD (**Vice-Dean, Full Time MBA**)

Mehta, Nitin - BTech, MS, MS, PhD (**Co-Academic Director, MMA Program**)

Mitchell, Matthew - BS, MA, PhD

Mitchell, William - BBA, PhD (**Academic Director, Full-Time MBA; Co-Academic Director, GEMBA-HLS**)

Mohanram, Partha Sarathy - BTech, MBA, PhD

Moldoveanu, Mihnea - BSc, MSc, DBA

Moorthy, Sridhar - BSc, MBA, MS, PhD

Ornthalalai, Chay - BEng, PhD

Oxley, Joanne - BSc, MA, MBA, PhD

Park, Andreas - MEc, MPH, PhD

Reuber, Becky - BA, MSc, PhD

Richardson, Gordon - BA, MBA, PhD, CA

Rotenberg, Wendy - BA, MBA, PhD

Rotundo, Maria - BA, MA, PhD

Rowley, Timothy - BA, MBA, PhD

Ryall, Michael - BS, MBA, PhD

Saks, Alan - BA, MSc, PhD

Shalev, Ron - MPH, MA, PhD

Shi, Mengze - BSc, MBA, PhD

Silverman, Brian - AB, MA, SM, PhD

Simutin, Mikhail - BA, PhD

Smieliauskas, Waldemar - BS, MS, PhD

Stark, Andrew - BA, MSc, AM, PhD

Soberman, David - BSc, MBA, PhD

Soman, Dilip - BE, MBA, PhD

Strange, William - BA, MA, PhD

Tilcsik, Andras - AB, AM, PhD

Toh, Soo Min - BBA, PhD

Tombak, Mihkel - BS, MBA, AM, PhD

Trefler, Daniel - BA, MPH, PhD

Trougakos, John Peter - BS, MBA, PhD

Tsai, Claire - BBA, MBA, PhD

Verma, Anil - BTech, MBA, PhD

Virag, Gabor - BA, MA, PhD

Vyas, Dushyantkumar - PhD

Wahid, Aida - BA, MA, PhD

Wang, Kevin - BS, MA, PhD

Wei, Jason - BSc, MBA, PhD

Wensley, Anthony - MA, MA, MBA, PhD

White, Alan - BEng, MBA, PhD

Whyte, Glen - LLB, MA, MPH, MBA, PhD

Wong, Franco - BA, MA, PhD

Xie, Jia Lin - BA, MBA, PhD

Xin, Baohua - PhD

Yang, Liyan - BA, MA, PhD

Ye, Minlei - PhD

Zhang, Ping - BA, MAcct, MA, PhD

Zhong, Chenbo - BA, MA, PhD

Zweig, David - BA, MASc, DPhil

Members Emeriti

Amburgey, Terry - BS, MA, PhD

Bird, Richard - BA, MA, PhD

D'Cruz, Joseph - BA, MBA, PhD

Dungan, D. Peter - BA, MA, PhD

Fisher, James - BA, MBA

Fleck, James - BA, DBA

Gunz, Hugh - DPhil, PhD

Halpern, Paul - BCom, MBA, PhD

Horstmann, Ignatius - BA, PhD

Kolodny, Harvey - BEng, MBA, PhD

Martin, Roger - AB, MBA

Menzefricke, Ulrich - MBA, DBA

Mitchell, Andrew - BA, PhD

Ondrack, Daniel - BComm, MBA, PhD

Pauly, Peter - MA, PhD

Wilson, Thomas - BA, AM, PhD

Associate Members

Akey Jr, Pat - BCom, MRes, PhD

Bountali, Olga - BSc, MSc, PhD

Bryan, Kevin - BA, MS, MS, PhD

Cavenaile, Laurent Xavier C. - MA, MSc, PhD

Celerier, Claire - MSc, PhD

Chen, Ningyuan - BS, MS, PhD

Chan, Cindy - BA, MS, PhD

Chattopadhyay, Akash - BE, MBA

Cire, Andre Augusto - BSc, MSc, PhD

Corhay, Alexandre - BCom, MSc, PhD

Dessaint, Olivier - MSc, MA, PhD

Feinberg, Matthew - BA, MEd, PhD

Gaetani, Ruben - BA, MA, MSc, PhD

Goetz, Daniel Thomas - BA, MA

Golubov, Andrey - MSc, PhD

Inostroza Padilla, Nicolas - BS, MA, MA, PhD

Khapko, Mariana - BEc, MA, PhD

Landry, Peter - BS, MS, PhD

Li, Nan - BA, MA, MBA, PhD

Liu, Shannon - BS, BA, PhD

Manning, Ryann - BA, MA, PhD

Martineau, Charles - BComm, MSc, PhD

McElheran, Kristina - BA, AB, AM, PhD

Medina Quispe, Pamela Milagros - BA, MA, PhD

Reiter, Nayana - BBA, MSc, PhD

Ruttan, Rachel - BA, MS, PhD
 Shah, Avni Mahesh - AB, PhD
 Shin, Jee-Eun - BA, MS
 Small, Christopher - BA, MA, PhD
 Steck, Andrew Lewis - BA, MA, PhD
 Yi, Irene - BBA, PhD
 Zhong, Zachary - PhD
 Zoican, Marius-Andrei - BSc, MPH, PhD

Management, Tri-campus: Management PhD

Doctor of Philosophy

Program Description

The Graduate Department of Management offers a world-class doctoral program. Applicants may enter the PhD program via one of two routes: 1) following completion of an appropriate master's degree or 2) direct entry following completion of a bachelor's degree.

PhD Program

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 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.
- 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.
- Students in all fields normally complete **coursework in one field and two areas of study** during Years 1 and 2. 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.

- **Coursework.** Students must complete a minimum of **4.5 full-course equivalents (FCEs)** to satisfy requirements for one field and two areas of study.
 - 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.
 - 2.0 FCEs: courses in the two areas of study are usually taken in cognate departments. Each area of study comprises at least 1.0 FCE.
 - Upon completion of the courses, students are expected to pass **comprehensive examinations** in the field.
 - Successful completion of the required course RSM 3080H *Research Methods in Business* (0.5 FCE).
- 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.
- During all years of study, students must maintain **residency**, whereby students are on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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 study 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 five 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.
- Students in all fields normally complete **coursework in one field and two areas of study** during Years 1 and 2. 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.
- **Coursework.** Students must complete a minimum of **6.5 full-course equivalents (FCEs)** to satisfy requirements for one field and two areas of study. Direct-entry students must complete 2.0 of the 6.5 FCEs within Year 1.
 - A minimum of 2.0 FCEs in the field. These will normally be taken from 3000-level Management courses, but additional courses from other departments may be required.
 - 2.0 FCE: courses in the two areas of study are usually taken in cognate departments. Each area of study comprises at least 1.0 FCE.
 - An additional 2.0 FCEs in any field related to the student's program of study.
 - Upon completion of the courses, students are expected to pass **comprehensive examinations** in the field.
 - Successful completion of the required course RSM 3080H *Research Methods in Business* (0.5 FCE).
- 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.
- During all years of study, students must maintain **residency**, whereby students are on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

Management, Tri-campus: Management PhD Courses

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 3010H	Special Topics in the Economics of Technology and Innovation
RSM 3011H	Advanced Topics in the Theory of Industrial Organization
RSM 3012H	Advanced Topics in Urban and Real Estate Economics
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 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.*

Management, University of Toronto Scarborough

Management, University of Toronto Scarborough: Introduction

Faculty Affiliation

Management, University of Toronto Scarborough

Degree Programs

Accounting and Finance

MAccFin

Overview

The **Master of Accounting and Finance (MAccFin)** is the first program of its kind in North America. The MAccFin delivers a world-class, practical education experience that prepares students for designations in the finance sector (Chartered Financial Analyst) and the accounting profession (Chartered Professional Accountant). The MAccFin offers students a co-op internship to incorporate work experience into their academic studies. The program caters to students who seek to solve the multi-faceted issues that face today's business world.

Contact and Address

Web: www.uoft.me/macccfin
 Email: macccfin@utsc.utoronto.ca
 Telephone: (416) 208-5098

Graduate Department of Management
 University of Toronto Scarborough
 1095 Military Trail
 Toronto, Ontario M1C 1A4
 Canada

Management, University of Toronto Scarborough: Graduate Faculty

Full Members

Wei, Jason - BSc, MBA, PhD
 Zweig, David - BA, MAsc, DPhil (**Chair**)

Associate Members

Ahmed, Syed - BCom, MA, MBA
 Chau, Derek - BCom, MBA, PhD
 Chen, Liang - BA, MBA, MSc, PhD

Cire, Andre Augusto - BSc, MSc, PhD
 Daga, Sandra - BA, MEd, CGA, CA
 Harvey, Lisa - BBA, MAccT
 Kong, Douglas - BBA, MBA
 Laurence, Hugh - BA, LLB, MA, DPhil
 Mazaheri, Ataollah - BMath, MEc, PhD
 McConkey, William - BSc, MBA
 Quan Fun, George - BA, MBA, CMA, CA
 Shalev, Ron - MPH, MA, PhD

Management, University of Toronto Scarborough: Management MAccFin

Master of Accounting and Finance

Program Description

The professional MAccFin degree program is offered over 16 months using a cohort-based model. In this four-session program, students must be registered full-time and complete a sequence of courses. This program begins in the Summer session.

The MAccFin program is designed for applicants who have not yet entered the workforce. These pre-experience applicants apply to the program immediately after completing their undergraduate degree. Applicants complete the School of Graduate Studies online admissions application and submit all official transcripts, two reference letters, and a resumé. Applicants must submit a supplemental application form to the Department of Management, UTSC.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the additional admission requirements stated below.
- An appropriate four-year undergraduate degree with a specialization in accounting or equivalent, with a minimum overall average of a mid-B in all core courses. Admission to the program is extremely competitive, and meeting the minimum overall average does not guarantee admission.
- 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 overall on the paper-based test and 5 on the Test of Written English (TWE); 100/120 on the Internet-based test and 22/30 on the writing and speaking sections.
 - In special circumstances, a minimum score of 7.0 on the International English Language Testing System (IELTS) may be considered for admission.

Program Requirements

- **Coursework.** Students must complete **8.5 full-course-equivalents (FCEs)*** as follows:
 - Session 1: Summer
 - MAF 1001H *Advanced Topics in Financial Reporting* (0.5 FCE)

- MAF 1002H *Strategy, Governance and Management Accounting* (0.5 FCE)
 - MAF 2001H *Economics and Quantitative Methods* (0.5 FCE)
 - MAF 2002H *Advanced Corporate Finance* (0.5 FCE)
 - MAF 2003H *Investment Analysis and Portfolio Management I* (0.5 FCE)
 - MAF 4001H *Advanced Seminar in Accounting and Finance I* (CR/NCR, 0.0 FCE)
 - MAF 5001H *Technical Update in Financial and Management Accounting* (CR/NCR, 0.0 FCE)
 - MAF 5002H *Finance Capstone Course I* (CR/NCR, 0.0 FCE).
- Session 2: Fall
 - MAF 1003H *Advanced Topics in Assurance* (0.5 FCE)
 - MAF 1004H *Advanced Taxation* (0.5 FCE)
 - MAF 2004H *Financial Statement Analysis and Equity Valuation* (0.5 FCE)
 - MAF 2005H *Derivatives* (0.5 FCE)
 - MAF 2006H *Investment Analysis and Portfolio Management II* (0.5 FCE)
 - MAF 3005H *Integration and Analysis: Critical Thinking and Decision Making I* (0.25 FCE)
 - MAF 4002H *Advanced Seminar in Accounting and Finance II* (CR/NCR, 0.0 FCE)
 - MAF 5003H *Finance Capstone Course II* (CR/NCR, 0.0 FCE)
 - Session 3: Winter
 - MAF 4000H *Co-op Internship* (0.5 FCE)
 - Session 4: Summer
 - MAF 1005H *Current Issues in Accounting and Assurance* (0.5 FCE)
 - MAF 2007H *Fixed Income* (0.5 FCE)
 - MAF 3001H *Leadership in the 21st Century* (0.25 FCE)
 - MAF 3002H *Strategy, Business Development and Sales* (0.25 FCE)
 - MAF 3003H *Business Data Analytics* (0.5 FCE)
 - MAF 3004H *Integration and Analysis: Board Report* (0.5 FCE)
 - MAF 3006H *Integration and Analysis: Critical Thinking and Decision Making II* (0.25 FCE)
 - MAF 5004H *Integrated Case Writing* (CR/NCR, 0.0 FCE)

Management, University of Toronto Scarborough: Management MAccFin Courses

MAF 1001H	Advanced Topics in Financial Reporting
MAF 1002H	Strategy, Governance and Management Accounting
MAF 1003H	Advanced Topics in Assurance
MAF 1004H	Advanced Taxation
MAF 1005H	Current Issues in Accounting and Assurance
MAF 2001H	Economics and Quantitative Methods
MAF 2002H	Advanced Corporate Finance
MAF 2003H	Investment Analysis and Portfolio Management I
MAF 2004H	Financial Statement Analysis and Equity Valuation
MAF 2005H	Derivatives
MAF 2006H	Investment Analysis and Portfolio Management II
MAF 2007H	Fixed Income
MAF 3001H	Leadership in the 21st Century
MAF 3002H	Strategy, Business Development and Sales
MAF 3003H	Business Data Analytics
MAF 3004H	Integration and Analysis: Board Report
MAF 3005H	Integration and Analysis: Critical Thinking and Decision Making I
MAF 3006H	Integration and Analysis: Critical Thinking and Decision Making II
MAF 4000H	Co-op Internship
MAF 4001H	Advanced Seminar in Accounting and Finance I (Credit/No Credit)
MAF 4002H	Advanced Seminar in Accounting and Finance II (Credit/No Credit)
MAF 5001H	Technical Update in Financial and Management Accounting (Credit/No Credit)
MAF 5002H	Finance Capstone Course I (Credit/No Credit)
MAF 5003H	Finance Capstone Course II (Credit/No Credit)
MAF 5004H	Integrated Case Writing (Credit/No Credit)

* A final grade below 70% in any course equates to an FZ, which is an insufficient grade. A MAccFin student who receives a final grade of FZ will be recommended for termination of registration from the MAccFin program.

Program Length

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

Time Limit

3 years full-time

Materials Science and Engineering

MSE: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Materials Science and Engineering

MASc

- Emphasis:
 - Sustainable Energy

MEng

- Emphases:
 - Advanced Manufacturing;
 - Advanced Soft Materials;
 - Advanced Water Technologies;
 - Analytics;
 - Biomanufacturing;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Forensic Engineering;
 - Sustainable Energy

PhD

- Emphasis:
 - Sustainable Energy

Collaborative Specializations

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

- Biomedical Engineering
 - Materials Science and Engineering, MASc, PhD

Overview

Climate change, energy availability, and resource depletion are today's global challenges. The Department of Materials Science and Engineering (MSE) is at the forefront of addressing these issues. MSE's research, education, and applications expertise in advanced materials engineering enables the development of new and sustainable technologies, creating innovative solutions for the global environment. As a world leader in materials applications and processing, the department's commitment to excellence fosters innovative thinking in its students, leading to the development of brilliant minds and ideas that make a global impact.

MSE research and studies address the general problem of understanding structure-property-processing-performance

relationships in materials. Materials science subjects focus on the structure, properties, and application of advanced materials in areas such as: Advanced Manufacturing & Coating Techniques; Adaptive Materials; Biomaterials & Biotechnology; Computational Materials Engineering; Electronic Materials & Systems; Materials Fracture & Failure; Nanomaterials & Nanotechnology; Optoelectronics; Photovoltaics; Process Metallurgy; Surface Engineering; and Sustainable Mineral & Materials Processing.

Leading-edge research facilities house 11 electron microscopy and surface characterization instruments in the Ontario Centre for the Characterization of Advanced Materials (OCCAM) and five new analytical instruments in the Walter Curlook Materials Characterization & Processing Laboratory, where graduate students learn from world-renowned researchers.

Contact and Address

Web: 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

MSE: Graduate Faculty

Full Members

Barati Sedeh, Mansoor - BSc, MASc, PhD
Chattopadhyay, Kinnor - BEng, MEng, PhD
Coyle, Tom - BS, BA, ScD (**Associate Chair, Graduate Studies**)
Erb, Uwe - MSc, PhD
Grynpas, Marc - MSc, PhD
Hatton, Benjamin - BAsC, MASc, PhD
Hibbard, Glenn - BASc, PhD (**Chair and Graduate Chair**)
Howe, Jane - PhD
Kherani, Nazir - BASc, MASc, PhD
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
Perovic, Doug - BASc, MASc, PhD
Ramsay, Scott - BASc, MASc, PhD
Ruda, Harry - BSc, PhD
Singh, Chandra Veer - BASc, MTech, PhD
Thorpe, Steven - BASc, MASc, PhD
Wang, Zhirui - BEng, BEng, MASc, PhD
Zou, Yu - BASc, MASc, PhD

Members Emeriti

Argyropoulos, Stavros - MEng, PhD
McLean, Alexander - BSc, PhD
Pilliar, Robert - BASc, PhD
Sommerville, Iain - BSc, PhD, ARCS

Associate Members

Marcuson, Samuel Walton - MS
 Parsch, Fabian Mario - BSc, MSc, PhD
 Sone, Eli - BSc, MS, PhD

MSE: Materials Science and Engineering MAsc

Master of Applied Science

Program Description

The MAsc program provides students with an opportunity to pursue advanced study and research with the guidance of experts in their respective fields. Studying in a chosen area of specialty and developing skills through hands-on experience in the MSE world-class labs provides students with the ability to either pursue PhD studies or to move out into industry with enriched skills and knowledge. This full-time program demands commitment and passion for research in materials engineering. For those interested in continuing to PhD-level research, successful completion of the MAsc is the normal route.

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

- Coursework.** The program of study normally includes 2.0 full-course equivalents (FCEs) (four half courses), including:
 - MSE 1000H⁰, the mandatory weekly *Graduate Research Seminar* MAsc (0.5 FCE)
 - three half courses (1.5 FCEs), one of which must be chosen from the list of MSE graduate course offerings.
- JDE 1000H *Ethics in Research*, a non-credit graduate **ethics seminar** (0.0 FCE).
- The required **thesis** is based upon research work carried out in the department. The thesis must be presented at an **oral examination**.
- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MAsc, MEng, PhD Emphases section.

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.

MSE: Materials Science and Engineering MEng

Master of Engineering

Program Description

The MEng program has been developed for recent graduates who wish to pursue graduate-level studies but may not be interested in continuing to the PhD program. This program is also intended for working engineers who wish to augment their current knowledge and add to their credentials. The multidisciplinary nature of materials engineering and the coursework-only and coursework-plus-project options enable students to build personalized programs which best suit their individual interests and needs. The MSE MEng is recognized and respected by employers globally and can enhance and enrich the career opportunities of graduates.

The MEng program can be taken on a full-time, extended full-time, or part-time basis.

Full-Time Option

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 full-course equivalents (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. An oral presentation of the project may be required.
- Students normally complete the requirements in three sessions (one year).
- Full-time MEng students may transfer to the research-stream MAsc program if they meet all of the following criteria:

- The request to transfer must be submitted at the beginning of the second session of enrolment. For example, students enrolled in September must successfully complete 1.5 FCEs (three half courses), technical courses of which at least one must be from MSE, with a B+ or 78% average. The technical courses taken during the MEng program will be credited toward the MASc program.
- Have a supervisor who is willing to provide funding for an MASc research project starting in the second session of enrolment.
- Students have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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 full-course equivalents (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. An oral presentation of the project may be required.
- Students are expected to complete the requirements in six sessions (two years). They are limited to six half courses per year and three half courses per session.
- Full-time MEng students may transfer to the research-stream MASc program if they meet all of the following criteria:
 - The request to transfer must be submitted at the beginning of the second session of enrolment. For example, students enrolled in September must

successfully complete 1.5 FCEs (three half courses), technical courses of which at least one must be from MSE, with a B+ or 78% average. The technical courses taken during the MEng program will be credited toward the MASc program.

- Have a supervisor who is willing to provide funding for an MASc research project starting in the second session of enrolment.
- Students have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Part-Time Option

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 full-course equivalents (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. An oral presentation of the project may be required.
- 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 have the option of completing an emphasis in Advanced Manufacturing; Advanced Soft Materials; Advanced Water Technologies; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; or Sustainable Energy as part of their degree program. Please

see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

MSE: Materials Science and Engineering PhD

Doctor of Philosophy

Program Description

Pursuing a PhD degree, the most advanced research degree in the Faculty of Applied Science and Engineering, can be a stepping stone to an academic career or to an industrial career which would benefit from in-depth applied research and research skills. Under the guidance of an accomplished supervisor, PhD students engage in original research that contributes to a variety of fields of study. Four years of PhD study allowing students to collaborate with local and international colleagues culminates in a written thesis which is presented orally and evaluated by experts. This is a degree program for outstanding students.

Applicants may enter the PhD program via one of three routes:

1) following successful completion of an MASc degree; 2) transfer from the University of Toronto MASc program to continue work that was begun at that level; or 3) direct entry following completion of an appropriate bachelor's degree.

The program can also be taken on a flexible-time basis.

PhD Program

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 (MSE)'s additional admission requirements stated below.
- Students are normally expected to have completed a master's-level program before entering the PhD 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 primary subject in a program will be extractive and process metallurgy, physical metallurgy, or materials science.
- **Coursework.** The program of study normally includes **2.0 full-course equivalents (FCEs)** (four half courses), including the weekly Graduate Research Seminar, and a thesis. The coursework selected normally includes:
 - MSE 2000H⁰ *Graduate Research Seminar PhD* (0.5 FCE).
 - Three half courses (1.5 FCEs), at least one of which must be chosen from the list of MSE graduate course offerings.
 - The departmental seminar, comprising a minimum of two seminars presented to the academic staff and students of MSE.
- Students must complete the seminar JDE 1000H *Ethics in Research*, a non-credit course (0.0 FCE).
- A general **Qualifying Examination** must be scheduled and taken within 12 months of initial registration. In case of failure, one further attempt within 3 months is allowed, no later than within 15 months of initial registration. No further attempts are permitted. In order to take this examination, students must complete all required coursework except for the *Graduate Research Seminar PhD*.
- 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.
- The required **thesis** is based upon research work carried out in the department in the areas of extractive and process metallurgy, physical metallurgy, or materials science.
- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Transfer)

Transfer Requirements

- 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 MSE Graduate Studies office.

Program Requirements

- The primary subject in a program will be extractive and process metallurgy, physical metallurgy, or materials science.
- **Coursework.** The program of study normally includes **2.5 full-course equivalents (FCEs)**, including the weekly Graduate Research Seminar PhD, and a thesis. The coursework selected normally includes:
 - Three half courses (1.5 FCEs) from the MASc program
 - MSE 2000H⁰ *Graduate Research Seminar PhD* (0.5 FCE)
 - An additional 0.5 graduate FCE.
- A general **Qualifying Examination** must be scheduled and taken within 12 months of initial registration. In case of failure, one further attempt within 3 months is allowed, no later than within 15 months of initial registration. No further attempts are permitted. In order to take this examination, students must complete all required coursework except for the *Graduate Research Seminar PhD*. 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 a particular emphasis on providing a critical assessment of the literature in the field, a central hypothesis of the 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.
- The required **thesis** is based upon research work carried out in the department in the areas of extractive and process metallurgy, physical metallurgy, or materials science.
- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Direct-Entry)

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 (MSE)'s additional admission requirements stated below.
- Exceptionally strong BASc students with an average grade of A– over the final four sessions of undergraduate studies (excluding Summer sessions in some cases) may be considered for direct entry to the PhD 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 primary subject in a program will be extractive and process metallurgy, physical metallurgy, or materials science.
- **Coursework.** The program of study normally includes **3.0 full-course equivalents (FCEs)** (six half courses), including the weekly *Graduate Research Seminar PhD*, and a thesis. The coursework selected normally includes:
 - MSE 2000H⁰ *Graduate Research Seminar PhD* (0.5 FCE)
 - Five half courses (2.5 FCEs), at least two of which must be chosen from the list of MSE graduate course offerings.
- Students must complete the seminar JDE 1000H *Ethics in Research*, a non-credit course (0.0 FCE).
- A general **Qualifying Examination** must be scheduled and taken within 12 months of initial registration. In case of failure, one further attempt within 3 months is allowed, no later than within 15 months of initial registration. No further attempts are permitted. In order to take this examination, students must complete all required coursework except for the *Graduate Research Seminar PhD*. 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.
- The required **thesis** is based upon research work carried out in the department in the areas of extractive and process metallurgy, physical metallurgy, or materials science.

- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Flexible-Time)

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 (MSE)'s additional admission requirements stated below.
- Students must have completed a master's-level program before entering the PhD 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.
- Applicants to the flexible-time PhD option are accepted under the same admission requirements as applicants to the full-time PhD option.

Program Requirements

- The primary subject in a program will be extractive and process metallurgy, physical metallurgy, or materials science.
- Students must complete **2.0 full-course equivalents (FCEs)** (four half courses) as follows:
 - Year 1: 1.0 FCE plus the non-credit seminar JDE 1000H *Ethics in Research* (0.0 FCE)
 - Year 2: 0.5 FCE. Prepare a research proposal and pass the Qualifying Examination
 - Year 3: Present the first seminar for MSE 2000H⁰ *Graduate Research Seminar PhD* (0.5 FCE)
 - Year 4: Research and writing
 - Year 5: Research and writing. Present the second seminar for MSE 2000H⁰
 - Year 6: Defend the thesis at the Doctoral Final Oral Examination by August 30.
- Students in the flexible-time option are registered full-time during the first four years and part-time during subsequent years in the program.
- The general **Qualifying Examination** must be scheduled and taken within 12 months of initial registration. In case of failure, one further attempt within 3 months is allowed, no later than within 15 months of initial registration. No further attempts are permitted. In order to take this examination,

students must complete all required coursework except for the *Graduate Research Seminar PhD*. 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.
- The required **thesis** is based upon research work carried out in the department in the areas of extractive and process metallurgy, physical metallurgy, or materials science.
- Students have the option of completing an emphasis in Sustainable Energy as part of their degree program. Please see details in the Materials Science and Engineering MASc, MEng, PhD Emphases section.

Program Length

6 years

Time Limit

8 years

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

MSE: Materials Science and Engineering MASc, MEng, PhD Emphases

Emphasis: Advanced Manufacturing (MEng only)

MEng students must successfully complete:

- Four half courses (2.0 full-course equivalents [FCEs])**, including at least one core course.
- Elective courses may include other core courses, and courses from either of two streams: Manufacturing Engineering and Manufacturing Management.

Core Courses

AER 501H, AER 1403H, APS 1028H, CHE 1123H, MIE 519H, MIE 1740H.

Elective Courses — Manufacturing Engineering

AER 521H, AER 1415H,
CHE 575H, CHE 1134H,
MIE 506H, MIE 540H, MIE 1706H, MIE 1713H, MIE 1718H,

MIE 1743H,
MSE 1015H, MSE 1028H, MSE 1031H, MSE 1058H, MSE 1061H,
ROB 501H.

Elective Courses — Manufacturing Management

APS 1005H, APS 1012H, APS 1013H, APS 1014H, APS 1017H, APS 1020H, APS 1023H, APS 1040H, APS 1088H, APS 1420H,
CHE 561H, CHE 1434H,
MIE 523H, MIE 1505H, MIE 1514H, MIE 1715H, MIE 1721H, MIE 1723H, MIE 1727H,
TEP 1011H, TEP 1026H, TEP 1501H.

Emphasis: Advanced Soft Materials (MEng only)

MEng students must successfully complete any **four half courses (2.0 full-course equivalents [FCEs])** from the following list:

CHE 562H, CHE 1310H, CHE 1333H, CHE 1335H, CHE 1475H,
JTC 1134H, JTC 1135H,
MIE 1705H, MIE 1706H, MIE 1707H, MIE 1740H,
MSE 1038H, MSE 1043H, MSE 1067H.

Students may double-count one course at most towards any MSE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Advanced Water Technologies (MEng only)

MEng students must successfully complete **two core courses (1.0 full-course equivalent [FCE])** and **two specialized courses (1.0 FCE)**.

- Two core courses (1.0 FCE):
 - CHE 1150H *Industrial Water Technology*
 - at least one of the following (any of the other three can count as a specialized course):
 - CHE 565H *Aqueous Process Engineering*
 - CIV 541H *Environmental Biotechnology*
 - CIV 549H *Groundwater Flow and Contamination*
 - CIV 550H *Water Resources Engineering*
 - CIV 1303H *Water Resources Systems Modeling*
 - CIV 1308H *Physical and Chemical Treatment Processes*
 - CIV 1311H *Advanced and Sustainable Drinking Water Treatment*
 - CIV 1319H *Chemistry and Analysis of Water and Wastes*
 - CIV 1399H *Special Studies in Civil Engineering* (e.g., Water Sanitation and Hygiene; Treatment Wetlands; the topic is subject to obtaining approval from the student's graduate unit)
 - CIV 1499H *Special Studies in Civil Engineering* (e.g., Fundamentals of Acid Mine Drainage; the topic is subject to obtaining approval from the student's graduate unit).
- Two specialized courses selected from the following (1.0 FCE):
 - CHE 1213H *Corrosion*
 - CHE 1430H *Hydrometallurgy Theory and Practice*

- JCC 1313H *Environmental Microbiology*
- JNC 2503H *Environmental Pathways*
- MIE 1807H *Principles of Measurements*
- STA 1004H *Introduction to Experimental Design*.

Enrolment Contact

Enrolment in the emphasis is permitted at any time during the MEng program. After students are admitted to the normal MEng program, students may contact [Prof. Ron Hofmann](#), (416) 946-7508.

Upon successful completion of the emphasis requirements and the successful completion of the MEng degree requirements, students will receive a transcript notation from the Faculty Graduate Studies office (subject to Prof. Hofmann's recommendation).

Emphasis: Analytics (MEng only)

To be admitted to the emphasis in Analytics, MEng students must first successfully complete a **prerequisite course APS 1070H (0.5 full-course equivalent [FCE])**.

Subsequently, to earn the emphasis, students must successfully complete **four additional half courses (2.0 FCEs)** from the list of core courses or elective courses. These must include at least one core course; the remaining courses must be selected from the list of elective courses.

Students must have completed the prerequisite course APS 1070H before taking any of the core courses.

Prerequisite Course

APS 1070H *Foundations of Data Analytics and Machine Learning*

Core Courses

CHE 1147H *Data Mining in Engineering*
ECE 1513H *Introduction to Machine Learning* (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1504H)
MIE 1624H *Introduction to Data Science and Analytics*
MSE 1065H *Application of Artificial Intelligence in Materials Design* (exclusion: MSE 1063H)

Elective Courses

APS 502H, APS 1005H, APS 1017H, APS 1022H, APS 1040H, APS 1050H, APS 1051H, APS 1052H, APS 1053H, CHE 507H, CHE 1108H, CHE 1148H, CHE 1434H, CIV 1504H, CIV 1506H, CIV 1507H, CIV 1532H, CIV 1538H, ECE 537H, ECE 1504H (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1513H), ECE 1505H, ECE 1657H, ECE 1778H, ECE 1779H, MIE 562H, MIE 1413H, MIE 1501H, MIE 1512H, MIE 1513H, MIE 1620H, MIE 1621H, MIE 1622H, MIE 1623H, MIE 1628H, MIE 1653H, MIE 1721H, MIE 1723H, MIE 1727H, MSE 1063H (exclusion: MSE 1065H).

Emphasis: Biomanufacturing (MEng only)

MEng students must successfully complete any **four half courses (2.0 full-course equivalents [FCEs])** from the following list:

CHE 1123H, CHE 1125H, CHE 1133H, CHE 1134H, CHE 1135H, CHE 1334H,
JCC 1313H,
JTC 1331H,
BME 1459H, BME 1480H.

Students may double-count one course at most towards any MSE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H, APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Forensic Engineering (MEng only)

MEng students must successfully complete **four courses (one core course and three elective courses)**.

Core Course

MSE 1031H

Elective Courses

APS 540H, APS 1034H, APS 1039H, APS 1040H, BME 1800H, BME 1801H, BME 1480H, CHE 561H, CHE 568H, CHE 1213H, CHE 1431H, CHE 1432H, CHE 1434H, CIV 510H, CIV 518H, CIV 1163H, CIV 1171H, CIV 1174H, CIV 1190H, CIV 1201H, CIV 1279H, CIV 1282H, CIV 1422H, CIV 1429H, JMB 1050H, JNC 2503H, MSE 1015H, MSE 1022H, MSE 1032H, MIE 566H, MIE 1224H, MIE 1301H, MIE 1303H, MIE 1411H, MIE 1414H, MIE 1616H, MIE 1713H, MIE 1714H, MIE 1721H, MIE 1723H, MIE 1727H, MIE 1804H.

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A **thesis** towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- **Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H,
CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H,
ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE 1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H,
MIE 1240H, MIE 1241H, MIE 1715H,
MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MSE: Materials Science and Engineering MASC, MEng, PhD Courses

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 in both the Fall and Winter sessions.

Not all courses are offered every year. Please consult the department for a listing of courses being offered this year.

All students wishing to undertake graduate research in the Department of Materials Science and Engineering must successfully complete a two-day intensive occupational health and safety training program which will normally take place during the week immediately preceding the commencement of graduate courses. More details concerning this course will be provided by the Coordinator of Graduate Studies once admission to a graduate program has been confirmed.

After the initial safety training, all students are required to pass refresher safety training annually.

Materials Science

MSE 1000H ⁰	Graduate Research Seminar MASC
MSE 1004H	Extractive Metallurgy
MSE 1015H	Mechanical Properties of Solids I
MSE 1022H	Special Topics in Materials Science I
MSE 1023H	Special Topics in Materials Science II
MSE 1024H	Interface and Nanophase Engineering
MSE 1026H	Analytical Electron Microscopy
MSE 1028H	Advanced Materials Science
MSE 1031H	Forensic Engineering
MSE 1032H	Polymers and Composites Engineering (exclusion: MSE 432H)
MSE 1034H	Directed Readings in Materials Science and Engineering I

MSE 1035H	Optical and Photonic Materials
MSE 1036H	Application of Electrochemical Techniques in Materials Science
MSE 1037H	Process Metallurgy of Iron and Steel
MSE 1038H	Computational Materials Design
MSE 1043H	Composite Materials Engineering (exclusion: MSE 432H)
MSE 1044H	Directed Readings in Materials Science and Engineering II
MSE 1051H	Advanced Physical Properties of Structural Nanomaterials
MSE 1058H	Nanotechnology in Alternate Energy Systems
MSE 1061H	Engineered Ceramics
MSE 1062H	Materials Physics
MSE 1063H	Application of Artificial Intelligence in Process Metallurgy (prerequisites: basic knowledge of R and Python; exclusion: MSE 1065H)
MSE 1064H	Extraction, Production, and Processing of Aluminum
MSE 1065H	Application of Artificial Intelligence in Materials Design (prerequisites: basic knowledge of R and Python and materials science; exclusion: MSE 1063H)
MSE 1066H	Practical Aspects of Electron Microscopy
MSE 1067H	Damage and Failure of Advanced Engineering Materials (prerequisites: basic knowledge of materials science, mechanics of materials, and fracture mechanics)
MSE 1068H	Additive Manufacturing of Metals, Ceramics, and Composites (prerequisites: basic knowledge of materials science, especially phase transformation and mechanical behaviour of materials)
MSE 2000H ⁰	Graduate Research Seminar PhD
MSE 3000Y	MEng Project
APS 1012H	Managing Business Innovation and Transformational Change
JMB 1050H	Biological and Bio-inspired Materials
JMZ 1704H	Polymer Process Engineering
JTC 1020H	Ceramics
JTC 1135H	Applied Surface Chemistry

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

Mathematical Finance

Mathematical Finance: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Mathematical Finance

MMF

Overview

Financial engineering is one of the fastest-growing areas of applied mathematics.

Contact and Address

Web: www.mmf.utoronto.ca
 Email: math.finance@utoronto.ca
 Telephone: (416) 946-5206

Mathematical Finance Program
 University of Toronto
 Suite 219, 720 Spadina Avenue
 Toronto, Ontario M5S 2T9
 Canada

Mathematical Finance: 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, Tom - BA, MA, PhD
 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

Mathematical Finance: Mathematical Finance MMF

Master of Mathematical Finance

Program Description

In the 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 cross-disciplinary approach develops graduates with a richer, more innovative approach to applied mathematics in real-world situations. Some of the faculty are seasoned practitioners from the financial industry while others are from leading firms in the financial software industry, developing applications around requirements like risk management, portfolio analysis, and the pricing of advanced derivatives.

The heart of the program is the four-month internship or campus project. Working on real financial projects, students learn to integrate and apply theoretical knowledge gained earlier in the program. In the internship, students team with employees of the sponsoring firm to experience how financial mathematics impacts the decision-making processes of a financial services organization.

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.
- 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 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

Mathematical Finance: Mathematical Finance MMF Courses

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 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	Data Science Methods for Investment, Finance, and Risk Management
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 2021H	Numerical Methods for Finance
MMF 2025H	Risk Management Laboratory
MMF 2028H	Blockchain Fundamentals for Finance
MMF 2030H	Machine Learning for Finance
MMF 2032H	Innovation and Entrepreneurship

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

MMF 1900Y	Internship (Credit/No Credit)
-----------	-------------------------------

Mathematics

Mathematics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Mathematics

MSc and PhD

Overview

The Department of Mathematics is a distinguished Faculty of more than 60 mathematicians, offering research opportunities in the areas 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.

Contact and Address

Web: www.math.toronto.edu/cms
 Email: gradinfo@math.toronto.edu
 Telephone: (416) 978-7894
 Fax: (416) 978-4107

Department of Mathematics
 University of Toronto
 Room 6290, 40 St. George Street
 Toronto, Ontario M5S 2E4
 Canada

Mathematics: 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
 Braverman, Alexander - BSc, PhD

Burchard, Almut - MS, PhD (**Associate Chair - Graduate**)
 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
 Herzig, Florian - BA, PhD
 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
 Khovanski, Askold - MS, PhD, DSc
 Kim, Henry - BSc, PhD
 Kudla, Stephen - BA, MA, PhD
 Marcolli, Matilde - MS, PhD
 McCann, Robert - BS, PhD
 Meinrenken, Eckhard - PhD
 Milman, Pierre - MA, PhD
 Murnaghan, Fiona - BSc, MSc, PhD
 Murty, Vijayakumar - BSc, PhD
 Nabutovsky, Alexander - MSc, PhD
 Nachman, Adrian - BSc, MA, PhD
 Panchenko, Dmitriy - MSc, PhD
 Pugh, Mary - BA, MS, PhD
 Quastel, Jeremy - BSc, MS, PhD (**Chair and Graduate Chair**)
 Rafi, Kasra - BSc, PhD
 Repka, Joe - BSc, PhD
 Rosenthal, Jeffrey - BSc, AM, PhD, FRSC
 Rotman, Regina - BA, PhD
 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
 Tsimmerman, Jacob - BSc, PhD
 Virag, Balint - BA, MA, PhD
 Weiss, William - BSc, MSc, PhD
 Yampolsky, Michael - DPhil

Members Emeriti

Akcoglu, Mustafa - MSc, PhD
 Andrews, David - BSc, MSc, PhD
 Bloom, Thomas - BSc, MA, PhD
 Davis, H. Chandler - BS, MA, PhD
 Ellers, Erich - DrRerNat, DrRerNat
 Fraser, Donald AS - BA, MA, PhD, FRSC
 Halperin, J Stephen - BSc, MSc, PhD, FRSC
 Haque, Wahidul - MA, MS, PhD
 Jurdjevic, Velimir - BS, MS, PhD
 Kupka, Ivan - BSc, PhD, PhD
 McCool, James - BSc, PhD
 Murasugi, Kunio - BSc, DSc
 Sen, Dipak - MSc, DSc
 Sharpe, Richard - BSc, MA, PhD
 Smith, Stuart - BSc, PhD
 Tall, Franklin - AB, PhD

Associate Members

Desjardins, Julie - BA, MA, PhD
 Dimitrov, Vesselin - MS, PhD
 Farah, Ilijas - PhD
 Groechenig, Michael - BSc, PhD
 Haslhofer, Robert - BSc, MSc, PhD
 Lefebvre, Jeremie - BSc, PhD
 Leuschke, Graham - BA, MA, PhD
 Liokumovich, Yevgeny - BSc, MSc, PhD
 Pusateri, Fabio Giuseppe - BS, MS, PhD
 Ramdorai, Sujatha - BSc, MSc, PhD
 Serkh, Kirill - BS, MS, PhD
 Stinchcombe, Adam - BMath, PhD
 Varma, Ila - BS, MSc, PhD
 Yu, Yun William - BA, MPH, MRes, PhD
 Yuen, Henry - PhD

Mathematics: Mathematics MSc

Master of Science

Program Description

The MSc is a research-oriented program. Opportunities for graduate study and research are available in most of the main areas of pure and applied mathematics. There is a large selection of graduate courses and seminars, a diverse student body of domestic and international students, and yet classes are small and the ratio of graduate students to faculty is low.

Many recent graduates are engaged in university teaching, and a significant number hold administrative positions in universities or in the professional communities. Others are pursuing careers in industry (technological or financial) or in government.

The MSc program is offered:

- for students with a complete undergraduate background in mathematics:
 - 12 months full-time
 - 24 months part-time
- for students who do not have a complete undergraduate background in mathematics. This option is not available on a part-time basis:
 - 16 months full-time
 - 24 months full-time

Provisional admission to the PhD program may be granted at the time of admission to the master's program.

MSc Program (12-Month Full-Time and 24-Month Part-Time)

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.

- Evidence of an excellent academic background and mathematical ability.

Program Requirements

- Students must complete the program in one of two ways:
 - 3.0 approved full-course equivalents (FCEs) and a supervised research project (MAT 4000Y), or its equivalent, **or**
 - 2.0 approved FCEs and an acceptable thesis. Two approved half-year courses are considered the equivalent of a full-year course.
- With approval, two prerequisite undergraduate half courses can be substituted for 0.5 graduate FCE.
- Students may, with approval, take courses outside the department as part of a coherent program.
- Students who undertake the MSc part-time must, at a minimum, satisfy the requirements of the 12-month program.
- Students who plan to continue to the PhD program may select 2.0 FCEs in core courses from the approved list in the PhD program requirements section. Students who obtain a grade of A– or higher in each of the corresponding core courses may count coursework towards the PhD comprehensive examination requirement in the particular subject areas.

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

MSc Program (16-Month 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 Mathematics' additional admission requirements stated below.
- Evidence of an excellent academic background and mathematical ability.
- Students who do not have a complete undergraduate background in mathematics may be accepted into the 16-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.

Program Requirements

- Students must complete the program full-time in one of two ways:
 - 3.0 approved full-course equivalents (FCEs) and a supervised research project (MAT 4000Y), or its equivalent, **or**

- 2.0 approved FCEs and an acceptable thesis. Two approved half-year courses are considered the equivalent of a full-year course.
- Students must also complete an approved selection of prerequisites and other courses: an additional 2.0 FCEs in Year 2, 3, or 4 undergraduate courses in any of the following subjects: algebra, analysis, partial differential equations, probability, and topology.
- With approval, two prerequisite undergraduate half courses can be substituted for 0.5 graduate FCE.
- Students may, with approval, take courses outside the department as part of a coherent program.
- Students who plan to continue to the PhD program may select 2.0 FCEs in core courses from the approved list in the PhD program requirements section. Students who obtain a grade of A– or higher in each of the corresponding core courses may count coursework towards the PhD comprehensive examination requirement in the particular subject areas.

Program Length

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

Time Limit

3 years full-time

MSc Program (24-Month 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 Mathematics' additional admission requirements stated below.
- Evidence of an excellent academic background and mathematical ability.
- Students who do not have a complete undergraduate background in mathematics may be accepted into the 24-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.

Program Requirements

- Students must complete the program full-time in one of two ways:
 - 3.0 approved full-course equivalents (FCEs) and a supervised research project (MAT 4000Y), or its equivalent, **or**
 - 2.0 approved FCEs and an acceptable thesis. Two approved half-year courses are considered the equivalent of a full-year course.
- Students must also complete an approved selection of prerequisites and other courses: an additional 3.0 FCEs in Year 2, 3, or 4 undergraduate courses in any of the following subjects: algebra, analysis, partial differential equations, probability, and topology.
- With approval, two prerequisite undergraduate half courses can be substituted for 0.5 graduate FCE.

- Students may, with approval, take courses outside the department as part of a coherent program.
- Students who plan to continue to the PhD program may select 2.0 FCEs in core courses from the approved list in the PhD program requirements section. Students who obtain a grade of A– or higher in each of the corresponding core courses may count coursework towards the PhD comprehensive examination requirement in the particular subject areas.

Program Length

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

Time Limit

3 years full-time

Mathematics: Mathematics PhD

Doctor of Philosophy

Program Description

The PhD is a research-oriented program consisting of coursework, comprehensive examinations, and a thesis embodying the results of original research. Opportunities for graduate study and research are available in most of the main areas of pure and applied mathematics.

Applicants may enter the PhD program via one of two routes: 1) following completion of an appropriate MA or 2) direct entry following completion of a bachelor's degree.

PhD Program

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.
- A master's degree from a recognized university. Students must satisfy the department of their ability to do independent research at an advanced level. They must show evidence of an excellent academic background and mathematical ability.

Program Requirements

- **Coursework.** Students must successfully complete at least **3.0 full-course equivalents (FCEs)**. Out of the following 12 core courses, students must complete 6 courses.

Core Courses

MAT 1000H	Real Analysis I
MAT 1001H	Real Analysis II

MAT 1002H	Complex Analysis
MAT 1060H	Partial Differential Equations I
MAT 1061H	Partial Differential Equations II
MAT 1100H	Algebra I
MAT 1101H	Algebra II
MAT 1300H	Topology I
MAT 1301H	Topology II
MAT 1600H	Mathematical Probability I
MAT 1601H	Mathematical Probability II
MAT 1850H	Linear Algebra and Optimization

- **Comprehensive examinations.**
 - Students must pass comprehensive examinations in basic mathematics before beginning an area of research. These examinations are scheduled at the start of the Fall session (usually September) and should be taken no later than the start of the third session.
 - Students who obtain a grade of A– or higher in each of the corresponding core courses for the general areas of mathematics will be exempted from the comprehensive examination requirement in the specific area of study.
- Students must pass a **qualifying oral examination** or give a seminar presentation in their particular area 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Exceptionally strong BSc students with a grade point average (GPA) of 3.7 or higher may apply for direct admission to the PhD program. Students must satisfy the department of their ability to do independent research at an advanced level. They must show evidence of an excellent academic background and mathematical ability.

Program Requirements

- **Coursework.** Students must complete at least **4.0 full-course equivalents (FCEs)**. Out of the following 12 core courses, students must complete 6 courses (3.0 FCEs). Students must also complete 1.0 elective FCE.

Core Courses

MAT 1000H	Real Analysis I
MAT 1001H	Real Analysis II
MAT 1002H	Complex Analysis
MAT 1060H	Partial Differential Equations I
MAT 1061H	Partial Differential Equations II
MAT 1100H	Algebra I
MAT 1101H	Algebra II
MAT 1300H	Topology I
MAT 1301H	Topology II
MAT 1600H	Mathematical Probability I
MAT 1601H	Mathematical Probability II
MAT 1850H	Linear Algebra and Optimization

- Students must complete MAT 4000Y+ *Supervised Research Project* (1.0 FCE) or its equivalent.
- **Comprehensive examinations.**
 - Students must pass comprehensive examinations in basic mathematics before beginning an area of research. These examinations are scheduled at the start of the Fall session (usually September) and should be taken no later than the start of the third session.
 - Students who obtain a grade of A– or higher in each of the corresponding core courses for the general areas of mathematics will be exempted from the comprehensive examination requirement in the specific area of study.
- Students must pass a **qualifying oral examination** or give a seminar presentation in their particular area 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

5 years

Time Limit

7 years

Mathematics: Mathematics MSc, PhD Courses

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 is available from the department. 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 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 1100H	Algebra I
MAT 1101H	Algebra II
MAT 1103H	Topics in Algebra I
MAT 1104H	Topics in Algebra II
MAT 1105H	Topics in Representation Theory
MAT 1109H	Classical Groups
MAT 1110H	Algebraic Groups
MAT 1120H	Lie Groups and Lie Algebras I
MAT 1122H	Lie Groups and Representations I
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 1192H	Advanced Topics in Algebraic Geometry
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 1300H	Differential Topology
MAT 1301H	Algebraic Topology
MAT 1302H	Combinatorial Methods
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 1346H	Homotopy Theory
MAT 1347H	Topics in Symplectic Geometry and Topology
MAT 1351H	Topics in Homotopy Theory
MAT 1355H	Singularity Theory
MAT 1359H	Moduli Spaces of Flat Connections
MAT 1360H	Complex Manifolds
MAT 1392H	Algebra Seminar
MAT 1399H	Advanced Point Set Topology
MAT 1403H	Model Theory
MAT 1404H	Introduction to Model Theory and Set Theory
MAT 1430H	Set Theory
MAT 1435H	Topics in Set Theory
MAT 1436H	Large Cardinals, Structure Theory of Ideals, and Applications (prerequisites: MAT 309H or MAT 409H)
MAT 1449H	Seminar in Foundations
MAT 1450H	Topics in Foundations
MAT 1498H	Communicating Mathematics to a General Audience (Credit/No Credit)
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 1509H	Mathematical and Computational Linguistics
MAT 1520H	Wave Propagation
MAT 1525H	Topics in Inverse Problems and Image Analysis
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 1710H	Group Theory and 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	Quantum Computing, Foundations to Frontier
MAT 1760H	Computer Algebra
MAT 1761H	Algorithms in Algebraic Geometry
MAT 1800H	Methods of Applied Mathematics I
MAT 1801H	Methods of Applied Mathematics II
MAT 1840H	Control Theory

MAT 1841H	Mathematics of Massive Data Analysis: Fundamentals and Applications
MAT 1845H	Dynamical Systems
MAT 1847H	Holomorphic Dynamics
MAT 1850H	Linear Algebra and Optimization
MAT 1855H	Mathematical Problems in 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 1951H	Readings in Applied Mathematics
MAT 2001H	Readings in Theoretical Mathematics I
MAT 2002H	Readings in Theoretical Mathematics II

Seminars

MAT 3001H	Seminar in Pure Mathematics (Credit/No Credit)
MAT 3002H	Seminar in Applied Mathematics (Credit/No Credit)

Research Project

MAT 4000Y ⁺	Supervised Research Project
------------------------	-----------------------------

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

Mechanical and Industrial Engineering

MIE: Introduction

Faculty Affiliation

Applied Science and Engineering

Degree Programs

Mechanical and Industrial Engineering

MASc

- Emphases:
 - Robotics;
 - Sustainable Energy

MEng

- Emphases:
 - Advanced Manufacturing;
 - Advanced Soft Materials;
 - Analytics;
 - Biomanufacturing;
 - Engineering and Globalization;
 - Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE);
 - Forensic Engineering;
 - Robotics;
 - Sustainable Energy
- Dual Degree Program:
 - BEng (South China University of Technology) / MEng (University of Toronto)

PhD

- Emphases:
 - Robotics;
 - Sustainable Energy

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Mechanical and Industrial Engineering, MASc, PhD
- [Engineering Education](#)
 - Mechanical and Industrial Engineering, MASc, PhD
- Health Care, Technology, and Place (admissions have closed)
 - Mechanical and Industrial Engineering, PhD
- [Knowledge Media Design](#)
 - Mechanical and Industrial Engineering, MASc, MEng, PhD
- [Psychology and Engineering](#)
 - Mechanical and Industrial Engineering, MASc, PhD
- [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.

Contact and Address

Web: www.mie.utoronto.ca/contact-us/

Email: gradoffice@mie.utoronto.ca

Telephone: (416) 978-2805

Department of Mechanical and Industrial Engineering
University of Toronto
Mechanical Engineering Building
5 King's College Road
Toronto, Ontario M5S 3G8
Canada

MIE: Graduate Faculty

Full Members

Aleman, Dionne - BSc, MSc, PhD
Amon, Cristina - BASc, MSc, ScD
Ashgriz, Nasser - BS, ME, DPhil
Azhari, Faezeh - BEng, PhD
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
Bodur, Merve - BM
Bussmann, Markus - BASc, MASc, PhD (**Chair**)
Carter, Michael - BM, MMath, PhD
Chan, Timothy - BSc, PhD
Chandra, Sanjeev - PhD
Chignell, Mark - BSc, PhD
Consens, Mariano - BEng, MSc, PhD
Donmez, Birsan - BS, MS, PhD
Filleter, Tobin - BE, PhD, PhD
Fox, Mark - BSc, PhD
Gruninger, Michael - BSc, MS, PhD
Guenther, Axel - Diplng, DE
Jamieson, Greg - BS, MASc, PhD
Kesler, Olivera - BSE, SM, ScD
Kwon, Roy - BA, MS, MSc, PhD
Lee, Chi-Guhn - DPhil (**Coordinator of Graduate Studies**)
Lee, Patrick Chang Dong - MSc, PhD
Liu, Xinyu - PhD
Makis, Viliam - MSc, PhD
Mandelis, Andreas - BSc, MA, MSc, PhD
McCahan, Susan - BS, PhD
Meguid, Shaker - BSc, MSc, PhD
Milgram, Paul - BASc, MSc, PhD
Mills, James - BSc, MASc, PhD
Mostaghimi, Javad - PhD

Naguib, Hani - BSc, ME, PhD, PEng
 Nejat, Goldie - BAsC, PhD
 Olechowski, Alison - BS, MS, MS, PhD, PhD
 Park, Chul - PhD
 Sain, Mohini - PhD
 Shu, L.H. - 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

Members Emeriti

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
 Turksen, Ismail - BSc, MSc, PhD
 Venter, Ronald - BSc, MEng, PhD
 Ward, Charles - BS, PhD

Associate Members

Burgner-Kahrs, Jessica - PhD
 Cevik, Mucabit - DE
 Drake, James McKenzie - BSE, MSc, MBChB
 Frances, Daniel - BAsC, MAsC, PhD, PEng
 Hollands, Justin - PhD
 Jaffer, Shaffiq - BSChE, PhD
 Khalvati, Farzad - MAsC, PhD
 Khosroshahi, Seyed - BSc, MSc, PhD
 Kundur, Deepa - BAsC, MAsC, PhD
 Mackay, Matthew - BAsC, PhD
 Moreau, Christian - PhD
 Purdie, Thomas
 Singh, Chandra Veer - BAsC, MTech, PhD
 Zou, Yu - BAsC, MAsC, PhD

MIE: Mechanical and Industrial Engineering MAsC

Master of Applied Science

Program Description

The MAsC degree program provides students with an opportunity to pursue research-intensive advanced studies in a particular field of interest.

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 requirement stated below.
- Evidence of research ability.

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.
- In Year 1, MAsC students are required to attend at least 70% of seminars that are part of the MIE Seminar Series. 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 Robotics or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MAsC, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years full-time

MIE: Mechanical and Industrial Engineering MEng

Master of Engineering

Program Description

The MEng degree program is designed for students preparing for advanced professional activity; it is not a research-oriented degree. The program may be taken on a full-time, extended full-time, or part-time basis.

Full-Time Option

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.

- A mid-B in the final two years of undergraduate study.

Program Requirements

- **5.0 full-course equivalents (FCEs) or 3.5 FCEs plus a supervised project.** A majority of the courses must be either offered by the Department of MIE or from a list (found on the department website) of approved courses deemed equivalent to an MIE course.
- Program completion is possible in three sessions (one year).
- Students in the MEng program have the option of completing an emphasis in Advanced Manufacturing; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; Robotics; or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Extended Full-Time Option

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 requirement stated below.
- A mid-B in the final two years of undergraduate study.

Program Requirements

- **5.0 full-course equivalents (FCEs) or 3.5 FCEs plus a supervised project.** A majority of the courses must be either offered by the Department of MIE or from a list (found on the department website) of approved courses deemed equivalent to an MIE course.
- Students are expected to complete the requirements in six sessions (two years) and are limited to seven half courses per year and three half courses per session.
- Students in the MEng program have the option of completing an emphasis in Advanced Manufacturing; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; Robotics; or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

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

Time Limit

3 years

Part-Time Option

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 requirement stated below.
- A mid-B in the final two years of undergraduate study.

Program Requirements

- **5.0 full-course equivalents (FCEs) or 3.5 FCEs plus a supervised project.** A majority of the courses must be either offered by the Department of MIE or from a list (found on the department website) of approved courses deemed equivalent to an MIE course.
- 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 Advanced Manufacturing; Analytics; Biomanufacturing; Engineering and Globalization; Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE); Forensic Engineering; Robotics; or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

9 sessions

Time Limit

6 years

Dual Degree Program: Bachelor of Engineering (South China University of Technology) / Master of Engineering (University of Toronto)

Program Description

The MEng may also be taken as part of a dual degree involving the Bachelor of Engineering (BEng) program offered by the [South China University of Technology's School of Mechanical and Automotive Engineering \(SMAE\)](#) and the Master of Engineering program offered by the University of Toronto's Mechanical and Industrial Engineering (MIE) department. Dual degree program students complete the fourth year of their

BEng as Visiting International Non-degree Students and receive a conditional offer to the MEng program. See the MEng requirements above.

Upon successful completion of the degree requirements of both programs, students receive a Bachelor of Engineering degree and a Master of Engineering degree.

Contact

Bachelor of Engineering Program
School of Mechanical and Automotive Engineering
South China University of Technology
Email: j2jw@scut.edu.cn

Master of Engineering Program
Department of Mechanical and Industrial Engineering
Faculty of Applied Science and Engineering, University of Toronto
Email: meng.admission@mie.utoronto.ca

Application Process

- This dual degree program allows outstanding third-year students at SMAE to apply to complete their fourth year of undergraduate studies enrolled in MIE as Visiting International Non-degree Students. These students receive a conditional offer of admission into the MEng program for their fifth year.

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 on the department's website.
- In Years 2 and 3 of the BEng program, a minimum 80% average (mid-B). In Year 4, students must maintain a minimum mid-B average until conferral of the BEng degree.

MIE: Mechanical and Industrial Engineering PhD

Doctor of Philosophy

The PhD degree program is for students anticipating a career in which they will be performing or directing research at the most advanced level.

Students may be admitted to the PhD program via one of three routes: 1) following completion of an appropriate master's degree; 2) transfer from the University of Toronto MASc program; or 3) direct entry following completion of a bachelor's degree.

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.

PhD Program

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.
- Admission to the 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 with an appropriate University of Toronto master's degree or its equivalent from a recognized university with a minimum B+ average.

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: completion of **2.5 full-course equivalents (FCEs) plus a thesis**.
- Participation in the non-credit seminar course JDE 1000H during the first or second session of registration.
- In Years 1 and 2, students must attend at least 70% of seminars that are part of the MIE Seminar Series. Students who complete this requirement will receive credit for SRD 4444Y *MIE Seminar Series*.
- Students must pass a qualifying examination, annual progress meetings, and the SGS Doctoral Final Oral Examination.
- Students must present a research seminar during the final year of their studies.
- Students must be on campus full-time unless special permission is obtained for off-campus study.
- Students have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- Admission to the PhD program is reserved for those who are able to present evidence of superior academic and research ability. Very strong MASc students may apply to transfer to the PhD program after completing only one year of the MASc program.

Program Requirements

- At the beginning of each student's program, a professor in the department will be identified as the supervisor and will guide the student in the research program and selection of courses.
- Minimum departmental standards in coursework: completion of **3.5 full-course equivalents (FCEs) plus a thesis**.
- Participation in the non-credit seminar course JDE 1000H during the first or second session of registration.
- In Years 1 and 2, students must attend at least 70% of seminars that are part of the MIE Seminar Series. Students who complete this requirement will receive credit for SRD 4444Y *MIE Seminar Series*.
- Students must pass a qualifying examination, annual progress meetings, and the SGS Doctoral Final Oral Examination.
- Students must present a research seminar during the final year of their studies.
- Students must 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 Robotics or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

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.
- Admission to the PhD program is reserved for those who are able to present evidence of superior academic and research ability. Exceptionally strong applicants with a bachelor's degree and an appropriate background may apply directly to the PhD program and may be admitted via direct entry. Applicants are advised to consult with the Graduate Coordinator before applying to ensure that they have the appropriate admission requirements for direct entry.

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: completion of **3.5 full-course equivalents (FCEs) plus a thesis**.
- Participation in the non-credit seminar course JDE 1000H during the first or second session of registration.
- In Years 1 and 2, students must attend at least 70% of seminars that are part of the MIE Seminar Series. Students who complete this requirement will receive credit for SRD 4444Y *MIE Seminar Series*.
- Students must pass a qualifying examination, annual progress meetings, and the SGS Doctoral Final Oral Examination.
- Students must present a research seminar during the final year of their studies.
- Students must 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 Robotics or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MASc, MEng, PhD Emphases section.

Program Length

5 years

Time Limit

7 years

PhD Program (Flexible-Time)

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.
- 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 with an appropriate University of Toronto master's degree or its equivalent from a recognized university with a minimum B+ average
- 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: completion of **2.5 full-course equivalents (FCEs) and a thesis**.
- Participation in the non-credit seminar course JDE 1000H during their first or second session of registration.

- In Years 1 and 2, students must attend at least 70% of seminars that are part of the MIE Seminar Series. Students who complete this requirement will receive credit for SRD 4444Y *MIE Seminar Series*. Students 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.
- Students must pass a qualifying examination, annual progress meetings, and the SGS Doctoral Final Oral Examination.
- Students must present a research seminar during the final year of their studies.
- Students in the PhD program have the option of completing an emphasis in Robotics or Sustainable Energy as part of their degree program. Please see details in the Mechanical and Industrial Engineering MAsc, MEng, PhD Emphases section.

Program Length

6 years

Time Limit

8 years

MIE: Mechanical and Industrial Engineering MAsc, MEng, PhD Emphases

Emphasis: Advanced Manufacturing (MEng only)

MEng students must successfully complete:

- **Four half courses (2.0 full-course equivalents [FCEs])**, including at least one core course.
- Elective courses may include other core courses, and courses from either of two streams: Manufacturing Engineering and Manufacturing Management.

Core Courses

AER 501H, AER 1403H, APS 1028H, CHE 1123H, MIE 519H, MIE 1740H.

Elective Courses — Manufacturing Engineering

AER 521H, AER 1415H,
CHE 575H, CHE 1134H,
MIE 506H, MIE 540H, MIE 1706H, MIE 1713H, MIE 1718H,
MIE 1743H,
MSE 558H, MSE 561H, MSE 1015H, MSE 1028H, MSE 1031H,
ROB 501H.

Elective Courses — Manufacturing Management

APS 1005H, APS 1012H, APS 1013H, APS 1014H, APS 1017H, APS 1020H, APS 1023H, APS 1040H, APS 1088H, APS 1420H,
CHE 561H, CHE 1434H,
MIE 523H, MIE 1505H, MIE 1514H, MIE 1715H, MIE 1721H,

MIE 1723H, MIE 1727H,
TEP 1011H, TEP 1026H, TEP 1501H.

Emphasis: Advanced Soft Materials (MEng only)

MEng students must successfully complete any **four half courses (2.0 full-course equivalents [FCEs])** from the following list:

CHE 562H, CHE 1310H, CHE 1333H, CHE 1335H, CHE 1475H,
JTC 1134H, JTC 1135H,
MIE 1705H, MIE 1706H, MIE 1707H, MIE 1740H,
MSE 1038H, MSE 1043H, MSE 1067H.

Students may double-count one course at most towards any MIE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Analytics (MEng only)

To be admitted to the emphasis in Analytics, MEng students must first successfully complete a **prerequisite course APS 1070H (0.5 full-course equivalent [FCE])**.

Subsequently, to earn the emphasis, students must successfully complete **four additional half courses (2.0 FCEs)** from the list of core courses or elective courses. These must include at least one core course; the remaining courses must be selected from the list of elective courses.

Students must have completed the prerequisite course APS 1070H before taking any of the core courses.

Prerequisite Course

APS 1070H *Foundations of Data Analytics and Machine Learning*

Core Courses

ECE 1513H *Introduction to Machine Learning* (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1504H)
MIE 1624H *Introduction to Data Science and Analytics*

Elective Courses

APS 502H, APS 1005H, APS 1017H, APS 1022H, APS 1040H, APS 1050H, APS 1051H, APS 1052H,
CHE 507H, CHE 1108H, CHE 1147H, CHE 1148H, CHE 1434H,
CIV 1504H, CIV 1506H, CIV 1507H, CIV 1532H, CIV 1538H,
ECE 537H, ECE 1504H (exclusions: CSC 411H, CSC 2515H, ECE 421H, ECE 521H, ECE 1513H), ECE 1505H, ECE 1657H, ECE 1778H, ECE 1779H,
MIE 562H, MIE 1413H, MIE 1501H, MIE 1512H, MIE 1513H, MIE 1620H, MIE 1621H, MIE 1622H, MIE 1623H, MIE 1628H, MIE 1653H, MIE 1721H, MIE 1723H, MIE 1727H.

Emphasis: Biomanufacturing (MEng only)

MEng students must successfully complete any **four half courses (2.0 full-course equivalents [FCEs])** from the following list:

CHE 1123H, CHE 1125H, CHE 1133H, CHE 1134H, CHE 1135H, CHE 1334H,
JCC 1313H,
JTC 1331H,
BME 1459H, BME 1480H.

Students may double-count one course at most towards any MIE emphasis, or towards any other emphasis in the Faculty.

Emphasis: Engineering and Globalization (MEng only)

MEng students must successfully complete **four half courses (2.0 full-course equivalents [FCEs])** from the following lists, with at least two half courses (or one full course) taken from Group A.

Group A

APS 510H, APS 530H, APS 1420H, GLA 1000H, JCR 1000Y (full-year course)

Group B

APS 1015H, APS 1020H, APS 1024H, CHL 5700H, JMG 2020H.

Note: Students who choose to pursue an MEng project in their home department that aligns with the Centre for Global Engineering (CGEN)'s disciplinary focus, as deemed by the CGEN Director, may count the project as one required Group B course.

Students who complete the requirements of the emphasis in Engineering and Globalization and wish to obtain a notation on their transcript should contact the [Faculty Graduate Studies office](#).

Emphasis: Entrepreneurship, Leadership, Innovation and Technology in Engineering (ELITE) (MEng only)

MEng students must successfully complete **any four of the following courses (2.0 full-course equivalents [FCEs])**:

Leadership

TEP 1010H, TEP 1011H, TEP 1026H, TEP 1027H, TEP 1029H, TEP 1030H, TEP 1501H, TEP 1502H

Entrepreneurship and Innovation

APS 1012H, APS 1013H, APS 1015H, APS 1023H, APS 1033H, APS 1035H, APS 1036H, APS 1041H, APS 1061H, APS 1088H

Finance and Management

AER 1601H, APS 502H, APS 1001H, APS 1004H, APS 1005H, APS 1009H, APS 1016H, APS 1017H, APS 1020H,

APS 1022H, APS 1028H, APS 1032H, APS 1038H, APS 1039H, APS 1040H, APS 1049H, APS 1050H, APS 1051H, APS 1052H

Engineering and Society

APS 510H, APS 1018H, APS 1024H, APS 1025H, APS 1031H, APS 1034H, APS 1420H.

Emphasis: Forensic Engineering (MEng only)

MEng students must successfully complete **four courses (one core course and three elective courses)**.

Core Course

MSE 1031H

Elective Courses

APS 540H, APS 1034H, APS 1039H, APS 1040H, BME 1800H, BME 1801H, BME 1480H, CHE 561H, CHE 568H, CHE 1213H, CHE 1431H, CHE 1432H, CHE 1434H, CIV 510H, CIV 518H, CIV 1163H, CIV 1171H, CIV 1174H, CIV 1190H, CIV 1201H, CIV 1279H, CIV 1282H, CIV 1422H, CIV 1429H, JMB 1050H, JNC 2503H, MSE 1015H, MSE 1022H, MSE 1032H, MIE 566H, MIE 1224H, MIE 1301H, MIE 1303H, MIE 1411H, MIE 1414H, MIE 1616H, MIE 1713H, MIE 1714H, MIE 1721H, MIE 1723H, MIE 1727H, MIE 1804H.

Emphasis: Robotics (MAsc, MEng, PhD)

Students must successfully complete **four courses (2.0 full-course equivalents [FCEs])** chosen from at least two of the following groups, and no more than two in any given group:

Group 1: Planning and Control

AER 1516H, AER 1517H, ECE 557H (exclusion: ECE 410H), ECE 1619H, ECE 1635H, ECE 1636H, ECE 1647H, ECE 1653H, ECE 1657H, MIE 1064H, MIE 1068H.

Group 2: Perception and Learning

AER 1513H, AER 1515H, CSC 2503H, CSC 2506H, CSC 2515H, CSC 2541H, CSC 2548H, ECE 516H, ECE 521H, ECE 1511H, ECE 1512H, JEB 1433H, ROB 501H.

Group 3: Modelling and Dynamics

AER 1503H, AER 1512H, AER 506H,
JEB 1444H,
MIE 1001H.

Group 4: Systems Design and Integration

AER 525H (exclusion: ECE 470H), AER 1216H, AER 1217H,
CSC 2621H,
MIE 505H, MIE 506H, MIE 1070H, MIE 1075H, MIE 1809H,
ROB 1514H.

Emphasis: Sustainable Energy (MAsc, MEng, PhD)

MAsc and PhD students must successfully complete:

- At least **three half courses (1.5 full-course equivalents [FCEs])** from either of the following lists below.
- A **thesis** towards their degree on a topic related to sustainable energy. Topics must be approved by the steering committee of the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MEng students must successfully complete:

- **Four half courses (2.0 FCEs)** from either of the following lists below, including at least one core course (0.5 FCE).

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, CHE 1150H,
CIV 575H, CIV 576H, CIV 577H, CIV 1303H, CIV 1307H,
ECE 533H, ECE 1030H, ECE 1055H, ECE 1057H, ECE 1059H, ECE 1085H, ECE 1086H, ECE 1092H, ECE 1094H,
MIE 516H, MIE 517H, MIE 1128H, MIE 1129H, MIE 1130H,
MIE 1240H, MIE 1241H, MIE 1715H,
MSE 1022H, MSE 1023H, MSE 1028H, MSE 1058H.

Students who complete the requirements of the emphasis in Sustainable Energy will receive a notation on their transcript from the Faculty Graduate Studies Office following a recommendation from the Institute of Sustainable Energy. Contact: [Mandeep Rayat](#).

MIE: Mechanical and Industrial Engineering MAsc, MEng, PhD Courses

See the departmental website for a schedule of [available courses](#).

Fluid Mechanics

MIE 520H	Biotransport Phenomena
MIE 1201H	Advanced Fluid Mechanics I
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 1240H	Wind Power
MIE 1241H	Energy Management
MIE 1299H	Special Topics in Fluid Mechanics

Human Factors and Ergonomics

MIE 542H	Human Factors Integration
MIE 1401H	Human Factors Engineering
MIE 1402H	Experimental Methods in Human Factors Research
MIE 1403H	Analytical Methods in Human Factors Research
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
MIE 1444H	Engineering for Psychologists

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 1516H	Structured Learning and Inference

Mechanics and Materials

MIE 517H	Fuel Cell System
MIE 540H	Product Design
MIE 1128H	Materials for Clean Energy Technologies
MIE 1301H	Solid Mechanics
MIE 1303H	Fracture Mechanics
MIE 1359H	Engineering Cell Biology and Micro-Nanoengineered Platforms
MIE 1705H	Thermoplastics Polymer Processing
MIE 1706H	Manufacturing of Cellular and Microcellular Polymers

MIE 1707H	Structure-Property Relationships of Thermoplastic and Composite Foams
MIE 1708H	Collision Reconstruction
MIE 1713H	Analysis and Design of Joints in Manufactured Products
MIE 1715H	Life Cycle Engineering
MIE 1720H	Creativity in Conceptual Design
MIE 1724H	Additive Manufacturing in Engineering Applications
MIE 1732H	Tribology
MIE 1740H	Smart Materials and Structures
MIE 1742H	Composite Materials Design
MIE 1743H	Axiomatic Design Principles for Conceptual and Embodiment Design
MIE 1744H	Nanomechanics of Materials
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 and Noise Control
MIE 1064H	Control Analysis Methods with Applications to Robotics
MIE 1068H	Applied Nonlinear Control
MIE 1070H	Intelligent Robots for Society
MIE 1075H	AI Applications in Robotics (prerequisites: control systems, robotics, AI fundamentals)
MIE 1076H	AI Applications in Robotics II (prerequisites: MIE 1075H, control Systems, robotics, AI fundamentals)
MIE 1080H	Introduction to Healthcare Robotics
MIE 1452H	Signal Processing for Bioengineering
MIE 1453H	Introduction to Sensors and Sensor Network
MIE 1718H	Computer Integrated Manufacturing
MIE 1766H	Aluminum Die Casting 2. — Product Design and Optimization
MIE 1767H	Mechatronics in Automotive Applications 1
MIE 1768H	Mechatronics in Automotive Applications 2 (prerequisite: MIE 1767H)
MIE 1809H	Advanced Mechatronics

Operations Research

MIE 561H	Healthcare Systems
MIE 562H	Scheduling
MIE 566H	Decision Analysis
MIE 1603H	Integer Programming
MIE 1605H	Stochastic Processes
MIE 1607H	Stochastic Modelling and Optimization
MIE 1612H	Stochastic Programming and Robust Optimization (prerequisites: MIE262, APS 1005H, or equivalent; and MIE231, APS106, or equivalent)
MIE 1613H	Stochastic Simulation

MIE 1615H	Markov Decision Processes
MIE 1616H	Research Topics in Healthcare Engineering
MIE 1619H	Constraint Programming and Hybrid Algorithms
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 1624H	Introduction to Data Science and Analytics
MIE 1628H	Big Data Science
MIE 1653H	Integer Programming Applications
MIE 1699H	Special Topics in Operations Research
MIE 1714H	Failure Analysis
MIE 1721H	Reliability
MIE 1723H	Engineering Asset Management
MIE 1727H	Quality Assurance I

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
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 1801H	Advanced Engineering Analysis

APS Engineering Courses

APS 1002H	Financial Engineering
APS 1005H	Operations Research for Engineering Management
APS 1012H	Managing Business Innovation and Transformational Change
APS 1013H	Applying Innovation in Engineering and Business Operations
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 1032H	Introduction to Energy Project Management
APS 1034H	Making Sense of Accidents
APS 1049H	Management Consulting for Engineers

APS 1050H	Blockchain Technologies and Cryptocurrencies
APS 1051H	Portfolio Management Praxis Under Real Market Constraint
APS 1052H	Artificial Intelligence in Finance: From Neural Networks to Deep Learning
APS 1061H	Business Strategy and Intrapreneurship
APS 1070H	Foundations of Data Analytics and Machine Learning
APS 1101H	System Dynamic Risk Assessment (recommended prerequisite: APS 1034H)
APS 1801H	Multidisciplinary MEng Project
APS 1802Y	Multidisciplinary MEng Project
APS 1803Y	Multidisciplinary MEng Project
APS 2000Y	Summer Engineering Practicum (Credit/No Credit)
TEP 1203H	Teaching Engineering in Higher Education
TEP 1204H	Instructional Design in Engineering Education

Thesis/Project

MIE 8888Y	MEng Research Project
RST 9999Y	Research Thesis

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 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
MIE 1763H	Hot Stamping 1. — Metallurgy, Materials, Thermomechanical Treatment, and Welding
MIE 1764H	Hot Stamping 2. — Process and Product Performance Simulation and Optimization
MIE 1765H	Aluminum Die Casting 1. — Metallurgy, Process Design, and Optimization

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

SRM 3333Y	MIE Seminar Series for MASc Students
SRD 4444Y	MIE Seminar Series for PhD Students

Medical Biophysics

Medical Biophysics: Introduction

Faculty Affiliation

Medicine

Degree Programs

Medical Biophysics

MSc and PhD

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Medical Biophysics, MSc, PhD
- [Cardiovascular Sciences](#)
 - Medical Biophysics, MSc, PhD
- [Genome Biology and Bioinformatics](#)
 - Medical Biophysics, PhD
- [Human Development](#) (admissions have been suspended)
 - Medical Biophysics, PhD
- [Neuroscience](#)
 - Medical Biophysics, MSc, PhD

Overview

The Department of Medical Biophysics is an interdisciplinary graduate department dedicated to fundamental and translational research in biomedicine, with a particular focus on cancer. Research is carried out in the extensive facilities provided in the Princess Margaret Cancer Centre, Sunnybrook Research Institute, and the Hospital for Sick Kids Research Institute, as well as at other hospital locations.

The department accepts students in the biological and life sciences as well as in physics, engineering, and the mathematical sciences. It offers opportunities for research addressing fundamental problems in medical science: projects which cut across the conventional boundaries of biology, physics, engineering, chemistry, and medicine are encouraged. The department focuses on basic and applied research related to cancer, but also addresses neuroscience and cardiovascular medicine. Medical Biophysics research themes include biomedical imaging, cancer diagnosis and therapy, cancer mechanisms and models, cardiovascular sciences, data science and computational biology, image-guided therapy and device development, neuroscience, stem cells and

regenerative medicine, and structural biology. For detailed information, please visit the departmental website.

Contact and Address

Web: medbio.utoronto.ca
 Email: medbio.info@utoronto.ca
 Telephone: (416) 634-8751 or (416) 634-8755

Department of Medical Biophysics
 MaRS Centre, Princess Margaret Cancer Research Tower
 101 College Street, Suite 15-701
 Toronto, Ontario M5G 1L7
 Canada

Medical Biophysics: Graduate Faculty

Full Members

Akens, Margarete - DVM, PhD
 Arrowsmith, Cheryl - BSc, PhD
 Attisano, Liliana - BSc, PhD
 Billia, Filio - BSc, MSc, MD, PhD
 Bjerknes, Matthew - BSc, MSc, PhD
 Boyd, Norman - MD
 Bratman, Scott - MD, PhD
 Bristow, Robert Glen - MD, PhD
 Burns, Peter - BSc, PhD
 Chakrabarty, Avijit - BSc, MSc, PhD
 Cunningham, Charles - BSc, MSc, PhD (**Vice-Chair**)
 DaCosta, Ralph - PhD
 Danska, Jayne - AB, PhD
 De Carvalho, Daniel - PhD
 Demore, Christine - PhD
 Done, Susan - BA, MA, MBA, BCh, MB, PhD
 Edwards, Aled - BSc, PhD
 Filmus, Jorge - MSc, PhD
 Foster, Stuart - BSc, MSc, PhD
 Fraser, Paul - BSc, MSc, PhD
 Gallie, Brenda - MD
 Gariepy, Jean - BSc, PhD
 Goertz, David - MSc, PhD
 Graham, Simon - BSc, PhD
 Haibe-Kains, Benjamin - PhD
 Hakem, Raz - PhD (**Graduate Coordinator, Downtown**)
 He, Housheng - PhD
 Hedley, David - MD
 Henkelman, Mark - BSc, MSc, PhD
 Huang, Annie - 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
 Keller, Gordon - BSc, PhD
 Kerbel, Robert - BSc, PhD
 Khokha, Rama - BSc, MSc, PhD
 Kislinger, Thomas - PhD (**Chair and Graduate Chair**)
 Leong, Hon - MSc, PhD
 Lilge, Lothar - DipPhy, PhD
 Lin, Fa-Hsuan - PhD
 Liu, Fei-Fei - MD
 Liu, Geoffrey - BSc, MSc, MD

Medical Biophysics: Medical Biophysics MSc

Master of Science

Program Description

The objective of the MSc program is for students to acquire written and oral scholarly research skills in Medical Biophysics. Students carry out a research project (which is usually laboratory-based), prepare a research thesis, take graduate-level courses, and attend and participate in research seminars. Students select from a flexible, modular curriculum and participate in department-wide Medical Biophysics Graduate Student Seminars which develop skills in cross-disciplinary communication.

All MSc students carry out a thesis project in a laboratory that they select by means of a rotations program on entry to the department. Through this project they acquire knowledge in the design of experiments and in the interpretation and critical analysis of research findings. Students submit a thesis that reports critically on their research and pass an oral examination. They are guided by a supervisory committee through which they have access to the wide range of expertise in our faculty.

Students participate in student symposium, invited lecture series, and research seminars throughout their program. They are encouraged to reclassify (transfer) into the PhD program through an examination during Year 2, taken about 20 months after entry.

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 from diverse academic backgrounds are encouraged to apply.

Program Requirements

- **Coursework.** Students must complete a total of **2.5 full-course equivalents (FCEs)** as follows:
 - MBP 1015Y⁰ *Biophysics Seminar* (1.0 FCE). Note that students must attend this continuous course until their degree program is completed.
 - MBP 1200H *Scientific Exposition and Ethics* (0.25 FCE).
 - MBP 1201H *Biostatistics* (0.25 FCE).
 - One of the following two options:
 - a biology-stream module (0.25 FCE) or
 - a graduate course (0.25 FCE) chosen in consultation with the department that provides a foundation in biology.
 - The balance of 0.75 FCE is chosen from any of the other course modules; or (with departmental approval) graduate courses in another department.
 - Modules are taken within courses. See the course list below.
 - Successful completion of an **oral examination** of the student's research thesis.

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
 Medin, Jeffrey - BSc, PhD
 Minden, Mark - MD, PhD
 Moody, Alan - BA, MA, MBBS
 O'Brien, Catherine - BSc, MSc, DrMed, PhD
 O'Reilly, Meaghan - MS, PhD
 Pai, Emil - PhD
 Paige, Christopher - BSc, PhD
 Penn, Linda - BSc, PhD
 Prive, Gil - BSc, PhD
 Pugh, Trevor - PhD
 Raught, Brian - BS, MS, PhD
 Reedijk, Michael - BSc, MSc, MD, PhD
 Reimand, Juri - MSc, PhD
 Ross, Bernhard - DipIng, PhD
 Rottapel, Robert - BA, MD
 Rubinstein, John - BSc, PhD, PhD
 Santyr, Giles - PhD
 Schimmer, Aaron - MD, PhD
 Sled, John - BASc, MEng, PhD (**Vice-Chair**)
 Spaner, David - PhD
 Stambolic, Vuk - BSc, MSc, PhD
 Stanisz, Greg - PhD (**Graduate Coordinator, Uptown**)
 Stefanovic, Bojana - BASc, PhD
 Strother, Stephen - BSc, MS, PhD
 Tabori, Uri - MBBS
 Taylor, Michael - BSc, DrMed, PhD
 Tsao, Ming-Sound - BSc, MD
 Uludag, Kamil - PhD
 Van Der Kooy, Derek - BSc, MA, PhD
 Vitkin, Alex - BASc, MASc, PhD
 Wilson, Brian - BSc, PhD
 Wong, Chong Shun - MD
 Woodgett, James - BSc, PhD
 Wouters, Bradley - MSc, PhD
 Yaffe, Martin - BSc, MSc, PhD
 Zacksenhaus, Eldad - PhD
 Zheng, Gang - MSc, PhD

Members Emeriti

Ottensmeyer, Peter - BASc, MA, PhD
 Plewes, Donald - BSc, MSc, PhD
 Rauth, A. Michael - BSc, PhD
 Tannock, Ian - MD, PhD

Associate Members

Bailey, Colleen - PhD
 Chan, Steven - MD, PhD
 Diamandis, Phedias - BS, MD, PhD
 Goubran, Maged - PhD
 Harding, Shane - PhD
 McIntosh, Chris - PhD
 Ramaswamy, Vijay - MD
 Sadeghi-Naini, Ali - MSc, PhD
 Tiedemann, Rodger - MBChB, PhD
 Wang, Bo - BS, MS, PhD

Program Length

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

Time Limit

3 years full-time

Medical Biophysics: Medical Biophysics PhD

Doctor of Philosophy

Program Description

The objective of the PhD program is to prepare students for a career in biomedical research. It is designed to provide both a broad knowledge of biomedical science and advanced training in basic research at a subspecialty level. Thesis work may address fundamental and/or translational problems in the biology, diagnosis, and therapy of cancer, as well as areas of neuroscience and cardiovascular medicine. By the end of the program, graduates will have acquired the ability to conduct independent theoretical and/or experimental research which makes an original contribution to the field, prepare publications, and give public presentations of their work at national and international venues.

These objectives are met through a combination of coursework, teaching, and research seminars, mentored laboratory research, and preparation of manuscripts for publication. Graduates may attain professorial positions in academic research and teaching institutions, hospital laboratories, and in the medical device, pharmaceutical, and biomedical science and information industries, including startup companies which they have founded.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree into the four-year full-time program; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of a BSc degree.

PhD Program

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 may be admitted following completion of an MSc degree program in biological, physical, chemical, or medical sciences from a recognized Canadian university or equivalent.
- Admission to the PhD program is highly selective and attainment of minimum admission requirements does not guarantee acceptance.

Program Requirements

- All students, regardless of entry option, complete the same program requirements.
- Considering the broad range of topics available for thesis research and the different backgrounds of students admitted, each student, in consultation with their supervisor, will plan a program of study that provides the appropriate background for the area of investigation.
- All PhD students will participate in MBP 1015Y⁰ *Biophysics Seminar* regardless of whether or not they have previously received credit for it.
- Students who transfer/reclassify into the doctoral program will receive credit for all courses taken during their MSc program in Medical Biophysics.
- Except by special arrangement, students are required to attend the research institute or campus laboratory and participate full-time until all program requirements are completed.
- **Coursework.** Students must complete a total of **3.5 full-course equivalents (FCEs)** as follows:
 - MBP 1015Y⁰ *Biophysics Seminar* (1.0 FCE). Note that this is a continuous course which students must attend until their degree is completed.
 - MBP 1200H *Scientific Exposition and Ethics* (0.25 FCE).
 - MBP 1201H *Biostatistics* (0.25 FCE).
 - One of the following two options:
 - a biology-stream module (0.25 FCE) or
 - a graduate course (0.25 FCE) chosen in consultation with the department that provides a foundation in biology.
 - The balance of 1.75 FCE is chosen from any of the other course modules; or (with departmental approval) graduate courses in another department.
- Students must complete all required coursework by the end of Year 3 in order to achieve candidacy. Upon achieving candidacy, completion is noted on the student's transcript.
- Students must take a **PhD Qualifying Examination** in Year 2.
- Successful completion of a **Doctoral Final Oral Examination** of the student's research thesis.

Program Length

4 years full-time

Time Limit

6 years full-time

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

PhD Program (Transfer)

Transfer Requirements

- Applicants may be accepted into the PhD program via transfer from the University of Toronto Medical Biophysics MSc program with an A– average and by successfully defending a research proposal during a reclassification oral examination within 20 months in the program.

Program Requirements

- All PhD students will participate in MBP 1015Y⁰ *Biophysics Seminar* regardless of whether or not they have previously received credit for it.
- Students who transfer/reclassify into the doctoral program will receive credit for all courses taken during their MSc program in Medical Biophysics. See the course requirements above for the PhD program. Students must have an A– average in these courses.
- Students will defend a research thesis at the **Doctoral Final Oral Examination** conducted by Medical Biophysics and the School of Graduate Studies.
- Except by special arrangement, students must attend the research institute or campus laboratory and participate full-time until all program requirements are completed.
- **Coursework.** Students must complete a total of **3.5 full-course equivalents (FCEs)** as follows:
 - MBP 1015Y⁰ *Biophysics Seminar* (1.0 FCE). Note that this is a continuous course which students must attend until their degree is completed.
 - MBP 1200H *Scientific Exposition and Ethics* (0.25 FCE).
 - MBP 1201H *Biostatistics* (0.25 FCE).
 - One of the following two options:
 - a biology-stream module (0.25 FCE) or
 - a graduate course (0.25 FCE) chosen in consultation with the department that provides a foundation in biology.
 - The balance of 1.75 FCE is chosen from any of the other course modules; or (with departmental approval) graduate courses in another department.
 - Students must complete all required coursework by the end of Year 4 in order to achieve candidacy. Upon achieving candidacy, completion is noted on the student's transcript.
- Successful completion of a **Doctoral Final Oral Examination** of the student's research thesis.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Direct-Entry)

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.
- Outstanding students may be admitted directly to the PhD program following completion of a BSc degree with an A– average in biological, physical, chemical, or medical sciences from a recognized Canadian university or equivalent.

- Applicants holding bachelor's degrees from non-Canadian universities must provide Graduate Record Examination scores (General and Subject) with their application.
- Admission to the PhD program is highly selective and attainment of minimum admission requirements does not guarantee acceptance.

Program Requirements

- Students must successfully defend a research proposal during a qualifying oral examination within 18 months of entry into the program.
- Students will defend a research thesis at the **Doctoral Final Oral Examination** conducted by the Department of Medical Biophysics and the School of Graduate Studies.
- Except by special arrangement, students must attend the research institute or campus laboratory and participate full-time until all program requirements are completed.
- **Coursework.** Students must complete a total of **3.5 full-course equivalents (FCEs)** as follows:
 - MBP 1015Y⁰ *Biophysics Seminar* (1.0 FCE). Note that this is a continuous course which students must attend until their degree is completed.
 - MBP 1200H *Scientific Exposition and Ethics* (0.25 FCE).
 - MBP 1201H *Biostatistics* (0.25 FCE).
 - One of the following two options:
 - a biology-stream module (0.25 FCE) or
 - a graduate course (0.25 FCE) chosen in consultation with the department that provides a foundation in biology.
 - The balance of 1.75 FCE is chosen from any of the other course modules; or (with departmental approval) graduate courses in another department.
 - Students must complete all required coursework by the end of Year 4 in order to achieve candidacy. Upon achieving candidacy, completion is noted on the student's transcript.
- Students must take a **PhD Qualifying Examination** in Year 2.
- Successful completion of a **Doctoral Final Oral Examination** of the student's research thesis.

Program Length

5 years

Time Limit

7 years

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

Medical Biophysics: Medical Biophysics MSc, PhD Courses

Each September the department publishes a list of [specific modules](#) available to students during the following two academic years. Please consult with the department.

MBP 1015Y ⁰ (1.0 FCE)	Biophysics Seminar
MBP 1200H (0.25 FCE)	Scientific Exposition and Ethics
MBP 1201H (0.25 FCE)	Biostatistics
MBP 1300H (0.25 FCE)	Quantitative Cancer Genomics
MBP 1301H (0.5 FCE)	Radiation Oncology: Clinical and Experimental Radiobiology
MBP 1302H (0.25 FCE)	Structural Biology and Proteomics
MBP 1303H (0.25 FCE)	Cell Signaling and Metabolism
MBP 1304H (0.25 FCE)	Predictive Oncology and Therapeutics
MBP 1305H (0.25 FCE)	Experimental Models for Cancer Research
MBP 1306H (0.25 FCE)	Cancer Epigenetics
MBP 1307H (0.25 FCE)	Development, Stem Cells, and Cancer
MBP 1308H (0.25 FCE)	Radiation Biology and DNA Repair
MBP 1309H (0.25 FCE)	Clinical Imaging for Physical Scientists
MBP 1310H (0.25 FCE)	Cancer Immunotherapy
MBP 1311H (0.25 FCE)	Tumour Microenvironment
MBP 1400H (0.25 FCE)	Advanced Magnetic Resonance Imaging
MBP 1401H (0.25 FCE)	Advanced Ultrasound
MBP 1402H (0.25 FCE)	Biological Imaging
MBP 1403H (0.25 FCE)	Biophysics of Focused Ultrasound, Thermal Biophysics
MBP 1404H (0.25 FCE)	Cell and Molecular Biology for Physicists – Introduction
MBP 1405H (0.25 FCE)	Introduction to Bio-Microscopies
MBP 1406H (0.25 FCE)	Introduction to Biophotonics
MBP 1407H (0.25 FCE)	Magnetic Resonance Imaging – Overview
MBP 1408H (0.25 FCE)	Medical Device Commercialization Essentials
MBP 1409H (0.25 FCE)	Medical Device Innovation and Entrepreneurship
MBP 1410H (0.25 FCE)	Nanotechnology for Medicine
MBP 1411H (0.25 FCE)	Overview of Medical Imaging
MBP 1412H (0.25 FCE)	Ultrasound – Overview
MBP 1413H (0.25 FCE)	Advanced Biostatistics
MBP 1414H (0.25 FCE)	Reading Special Topics

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

Medical Science

Medical Science: Introduction

Faculty Affiliation

Medicine

Degree Programs

Biomedical Communications

MScBMC

- Fields:
 - Biomedical Media Design;
 - Biomedical Visualization Design

Medical Science

MSc and PhD

- Fields:
 - Bioethics;
 - Biomedical Science;
 - Clinical Science;
 - Health Professions Education;
 - Population Health/Health Services;
 - Radiation Oncology

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Addiction Studies](#)
 - Medical Science, MSc, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Medical Science, MSc, PhD
- [Bioethics](#)
 - Medical Science, MSc, PhD
- [Biomedical Engineering](#)
 - Medical Science, MSc, PhD
- [Cardiovascular Sciences](#)
 - Medical Science, MSc, PhD
- [Developmental Biology](#)
 - Medical Science, MSc, PhD
- [Environment and Health](#)
 - Medical Science, MSc, PhD
- [Genome Biology and Bioinformatics](#)
 - Medical Science, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Medical Science, PhD

- Health Care, Technology, and Place (admissions have closed)
 - Medical Science, PhD
- [Health Services and Policy Research](#) (admissions have been suspended)
 - Medical Science, MSc, PhD
- [Human Development](#) (admissions have been suspended)
 - Medical Science, PhD
- [Indigenous Health](#)
 - Medical Science, MSc, PhD
- [Knowledge Media Design](#)
 - Medical Science, MSc, PhD
- [Musculoskeletal Sciences](#)
 - Medical Science, MSc, PhD
- [Neuroscience](#)
 - Medical Science, MSc, PhD
- [Resuscitation Sciences](#)
 - Medical Science, MSc, PhD
- [Toxicology](#)
 - Medical Science, MSc, PhD
- [Women's Health](#)
 - Medical Science, MSc, PhD

Diploma Programs

Graduate Diploma in Health Research

GDipHR

Overview

With over 600 faculty and 550 students, the Institute of Medical Science (IMS) was established to foster education and scholarship in the Clinical Departments of the Faculty of Medicine. IMS specializes in translational research with a strong emphasis on bench-to-bedside clinical applications. Degree candidates have the opportunity to conduct research in one of four training areas: bio-medical science; clinical science; health systems and services; and population health. Graduates have been appointed to positions as academics and health-care professionals in universities, government, and industry.

Contact and Address

Biomedical Communications Program

Web: bmc.med.utoronto.ca
 Email: bmc.info@utoronto.ca
 Telephone: (905) 569-4849

Biomedical Communications
 University of Toronto Mississauga
 HSC 308, 3359 Mississauga Road
 Mississauga, Ontario L5L 1C6
 Canada

Medical Science Program

Web: 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

Graduate Diploma in Health Research

Web: md.utoronto.ca/graduate-diploma-health-research-0
Email: gdip.hres@utoronto.ca
Telephone: (416) 946-7866

Graduate Diploma in Health Research
University of Toronto
Medical Sciences Building
Room 2256, 1 King's College Circle
Toronto, Ontario M5S 1A8
Canada

Medical Science: Graduate Faculty

Full Members

Advani, Andrew - MBChB, PhD
Agur, Anne - BSc, MSc, PhD
Al-Omran, Mohammed - MSc, MBBS
Alibhai, Shabbir - MD
Allard, Johane - MD
Alman, Benjamin - BSc, MD
Anagnostou, Evdokia - MD
Bagli, Darius - BS, MD
Baker, Andrew - MD, MD
Bapat, Bharati - BSc, MSc, PhD
Barr, Cathy - BSc, PhD
Bassett, Anne - BSc, MD
Batt, Jane - MD, PhD
Baxter, Nancy - DrMed, PhD
Billia, Filio - BSc, MSc, MD, PhD
Black, Sandra - BSc, MD
Boggild, Andrea - BSc, MSc, MD
Boileau, Isabelle - PhD
Booth, Gillian - MD
Boulianne, Gabrielle - BSc, PhD
Brochard, Laurent - MD
Brooks, Dina - BSc(PT), MSc, PhD
Brown, Theodore - BSc, PhD
Brumell, John - BSc, PhD
Caniggia, Isabella - MD, PhD
Catral, Mark - MSc, BScMed, MD
Catran, Daniel - MD
Chandran, Vinod - MBBS, PhD
Chen, Robert - MB
Chertkow, Howard - MD
Cheyne, Douglas - BSc, MA, PhD
Connelly, Kim - MBBS, PhD
Croitoru, Ken - MDCM
Cypel, Marcelo - DrMed
Das, Sunit - DrMed
Daskalakis, Jeff - MD
Davis, Karen - BSc, MSc, PhD
Dawson, Laura - MD

de Veber, Gabrielle - MD
Donnelly, Sandra - BSc, MSc, MDCM
Doria, Andrea - MSc, MD, PhD
Dorian, Paul - MSc, MDCH
Drucker, Daniel - MD
Esplen, Mary Jane - BScN, MSN, PhD, RN
Eubanks, James - BSc, AA, PhD
Fehlings, Michael - LMCC, MD, PhD
Feinstein, Anthony - MBChB, PhD
Feld, Jordan - MPH, MD
Feng, Zhong-Ping - PhD
Fish, Jason - BSc, PhD
Fish, Joel Steven - BSc, MSc, MD
Fleshner, Neil - MPH, LRCP, MD
Flint, Alastair - ChB
Floras, John - MD, DPhil
Gaisano, Herbert - BS, MD
Gallinger, Steven - MSc, MD
George, Tony - BSc, MD
Gershon, Andrea - MSc, MD
Gilbert, Richard - MBBS, PhD
Gladman, Dafna - MD
Graff-Guerrero, Ariel - MD
Granton, John - BS, MD
Grunebaum, Eyal - MD
Gupta, Neeru - BM
Hamani, Clement - DrMed, PhD
Hamilton, Jill - BSc, MSc, MD
Haroon, Nigil - MBBS, MD, PhD
Harrison, Robert - PhD, DSc
Hedley, David - MD
Heon, Elise - LMCC, MD
Herrmann, Nathan - MD
Hill, Sean - BA, PhD
Hodaie, Mojgan - BSc, MSc, MD
Horner, Richard - BSc, PhD
Hudson, Christopher - BSc, PhD
Humar, Atul - MSc, MD
Husain, Mansoor - MB, MD
Inman, Robert - BA, MD
Irwin, Meredith - MD
Jarvi, Keith - MD
Jewett, Michael - LMCC, MD
Jones, Nicola - MD
Josselyn, Sheena - MA, PhD
Juvet, Stephen - DrMed, PhD
Kaplan, Allan - AA, BA, MSc, MD
Kapus, Andras - MD, PhD
Katzman, Debra - MD
Kaul, Rupert - MD, PhD
Keating, Armand - BSc, MD
Kennedy, James - MD
Kennedy, Sidney - DPsych, MBChB, BAO
Keshavjee, Shaf - BA, MSc, LMCC, MD
Kingdom, John - DipCH, MB, MD
Kish, Stephen John - BSc, MSc, PhD
Kontos, Pia - BA, MA, PhD
Kumar, Deepali - MSc, MD
Lam, Tony - BS, DPhil
Lazarus, Alan - PhD
Lee, Warren - MD, PhD
Leong-Poi, Howard - MD
Levinson, Wendy - BSc, MD
Leviton, Robert - MSc, MDCM
Levy, Gary - BSc, MD
Lewis, Gary - BCh, MBChB
Li, Ren-Ke - MHSc, MSc, MD, PhD
Licht, Christoph - MD
Lindsay, Thomas - BSc, MSc, MDCM

Liu, Fang - PhD
 Liu, Fei-Fei - MD
 Liu, Geoffrey - BSc, MSc, MD
 Liu, Mingyao - MSc, MD (**Director**)
 Lobaugh, Nancy - BS, PhD
 Lozano, Andres - BSc, LMCC, MD, BScMed, PhD
 MacDonald, Russell - MD
 Marsden, Philip - MD
 Marshall, John - MD
 Masellis, Mario - MSc, MD
 Mazer, Cyril David - MD
 McCrindle, Brian - MD
 McDonald, Lynn - PhD
 McIntyre, Roger - MD
 McKenzie, Kwame - MD
 McNamara, Patrick - MB
 Mikulis, David - BS, MD
 Miller, Steven - MD
 Milosevic, Michael - MD
 Mizrahi, Romina - MD, PhD
 Moe, Gordon - MD
 Moody, Alan - BA, MA, MBBS
 Mueller, Daniel - MD
 Nanthakumar, Kumaraswamy - MD
 Nathan, Paul - BA, MSc, MD
 Nauth, Aaron - BSc, MSc, MD
 Olivieri, Nancy - MD
 Osborne, Lucy - PhD (**Coordinator of Graduate Studies**)
 Ouzounian, Maral - BSc, MDCM, PhD
 Palmert, Mark - MD
 Pei, York - MD
 Pierro, Agostino - MD
 Pollock, Bruce - BSc, MD, PhD
 Post, Martin - PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Rajji, Tarek - MD
 Rand, Margaret - BSc, PhD
 Ratjen, Felix - MD
 Ravindran, Arun - PhD
 Ray, Joel - MSc, MD
 Redelmeier, Donald - MS, MD
 Reithmeier, Reinhart - BSc, PhD
 Remington, Gary - MD, PhD
 Richards, Robin - BA, MD
 Rodin, Gary - BSc, MD
 Rosenblum, Norman - MD
 Ross, Heather - BSc, MD
 Rotstein, Ori - MSc, MD
 Rubinfeld, Gordon - MSc, MD
 Rummens, Joanna - PhD
 Salter, Michael - MD, PhD
 Schachar, Russell James - MD
 Schimmer, Aaron - MD, PhD
 Scholey, James - MD
 Seed, Mike - MBBS
 Selzner, Markus - MD, PhD
 Semple, John - BSc, MSc, MD
 Sgro, Michael - MD
 Sherman, Philip - MD
 Silverman, Earl - MD
 Silverman, Melvin - BSc, MDCH
 Singer, Peter - MPH, MD
 Slutsky, Arthur - BSc, MSc, MD
 Sockalingam, Sanjeev - MD
 Sondheimer, Neal John - MD, PhD
 Stevens, Bonnie - BSc, MSN, PhD
 Stewart, Donna - DPsych, MD
 Stewart, Suzanne - BA, MA, PhD
 Strafella, Antonio - MD, PhD

Strauss, Bradley - MD
 Strauss, John - MD
 Swartz, Richard - BSc, MD, PhD
 Swezey, Neil - BSc, MD, MD
 Szasz, Katalin - MD, PhD
 Tartaglia, Carmela - BA, BSc, MDCM
 Tator, Charles - MA, MD, PhD
 Tierney, Mary - BA, MA, PhD
 To, Teresa - BSc, MSc, PhD
 Tymianski, Michael - BA, MD, PhD
 Urowitz, Murray - MD
 Van Der Kooy, Derek - BSc, MA, PhD
 Vasdev, Neil - PhD
 Venkateswaran, Vasundara - BSc, MPH, MSc, PhD
 (**Coordinator of Graduate Studies**)
 Verhoeff, Nicolaas - MD
 Verma, Subodh - MSc, MD, PhD
 Vincent, John - PhD
 Voineskos, Aristotle - MD, PhD
 Vorstman, Jacob - MD, PhD
 Waddell, Thomas - MSc, LMCC, MD, PhD
 Weisel, Richard - BA, MD
 Weksberg, Rosanna - MD, PhD
 Whyne, Cari - BSc, PhD
 Windrim, Rory - MB
 Wittnich, Carin - MSc, DVM
 Woo, Minna - MD
 Woodside, Blake - BSc, MSc, MD
 Wunder, Jay - BA, MSc, LMCC, MD
 Yang, Victor - BSc, MSc, MD, PhD
 Yau, Terrence - BA, MSc, MDCM, MDCM
 Yee, Albert - MSc, LMCC, MD
 Yeger, Herman - BSc, MScPhm, PhD
 Yeh, Ann - MD
 Yucel, Yeni - MD
 Zadeh, Gelareh - BSc, DrMed, BScMed, DPhil
 Zappitelli, Michele - MSc, MD
 Zhang, Li - MSc, MD, PhD
 Zhang, Liang - PhD
 Zheng, Gang - MSc, PhD
 Zimmermann, Camilla - MSc, MD

Members Emeriti

Burnham, Willets - PhD
 Chan, Helen - MBBS
 Daar, Abdallah Salim - MD
 Seeman, Mary - BA, MDCH, MD
 Toner, Brenda - BA, MA, PhD
 Warsh, Jerry - MD

Associate Members

Agarwal, Sri Mahavir - MD, PhD
 Agid, Ofer - MD
 Alam, Fahad - BHSc(PT), MD
 Anastakis, Dimitrios - BSc, MEd, MD
 Andrade, Danielle - MSc, MD
 Anthony, Samantha - PhD
 Atri, Mostafa - MD
 Baertschiger, Reto - MD, PhD
 Bandiera, Glen - MD
 Battaglia, Marco - BA, DrMed
 Bernardini, Marcus - BSc, MSc, MD
 Bezjak, Andrea - MS, MDCM
 Bhalariao, Shree - MD
 Boulos, Mark - BSc, MD

Byrne, John - MBChB
 Campbell, Douglas - MD
 Chan, Clara - LMCC, MD
 Chan, Steven - MD, PhD
 Chauhan, Vijay - MD
 Cheema, Asim - MBBS
 Chepeha, Douglas - MD
 Cheskes, Sheldon - BSc, DrMed
 Cheung, Amy - BA, MSc, MD
 Chung, Frances - MBBS
 Chung, Jennifer - BEng, MD, MC
 Cil, Tulin - BSc, MEd, DrMed
 Clarke, Hance - MSc, MD
 Crawley, Adrian - BA, PhD
 Cushing, Sharon L. - BSc, MD
 de Perrot, Marc - MSc, MD
 Delgado, Diego - MD
 Desarkar, Pushpal - MD
 Dlamini, Nomazulu - MBBS
 Dueck, Andrew - BSc, MSc, DrMed
 Dunkley, Benjamin - BSc, PhD
 Eder, Lihi - DrMed
 Emmenegger, Urban - MD
 Fairn, Gregory - BSc, PhD
 Faiz, Maryam - PhD
 Fasano, Alfonso - MD, PhD
 Faughnan, Marie - MD
 Felsky, Daniel - BSc, PhD
 Ferguson, Sarah - BSc, MD
 Finelli, Tony - BSc, MSc, MSc, PhD
 Floh, Alejandro - MD
 Foussias, George - BSc, MSc, DrMed, PhD
 French, Leon - BSc, MSc, PhD
 Friedberg, Mark - MD
 Furlan, Andrea - MD, PhD
 Gagliese, Lucia - BSc, PhD
 Gerretsen, Philip - MSW, MD, PhD
 Giacobbe, Peter - MD
 Ginsburg, Shipra - MEd, MD
 Gladdy, Rebecca - DrMed, PhD
 Goldstein, Benjamin - MD
 Goldstein, Roger - MBChB
 Goligher, Ewan - DrMed, PhD
 Gomez Jaramillo, David - MD, PhD
 Gonska, Tanja - MD
 Gordon, Tessa - BSc, MSc, PhD
 Grasemann, Hartmut - MD
 Griffiths, John - BSc, MSc, PhD
 Guerguerian, Anne Marie - MD
 Hahn, Cecil - MD
 Haider, Masoom - BM, MD
 Hamilton, Robert - BSc, MD, PhD
 Hannon, Breffni - MB
 Harnett, Nicole - BSc
 Harrington, Jennifer - MBBS, PhD
 Hassouna, Magdy - MSc, LMCC, LMCC, MBChB, PhD
 Hawco, Colin - BSc, MSc, PhD
 Haykal, Siba - BS, MD, PhD
 Heyn, Chris - MD, PhD
 Hofer, Stefan - MD, PhD
 Holden, Lori - BSc
 Horlick, Eric - MD
 Howe, Kathryn - BSc, MD, PhD
 Husain, Amna - LMCC, MD
 Husain, Muhammad Ishrat - MBBS
 Hutchison, Jamie - MD
 Ibrahim, George - BS, MD, PhD
 Ivers, Noah - MD
 Jean-St-Michel, Emilie - MDCM

Jin, Yaping - PhD
 Kahan, Meldon Mayer - MHSc, MD
 Kahr, Walter - MD
 Kamath, Binita - MBBS
 Karkouti, Keyvan - MD
 Kayssi, Ahmed - BS, BA, MS, MPH
 Khalvati, Farzad - MASc, PhD
 Kidd, Sean - PhD
 Kim, Dong Hwan (Dennis) - MD, PhD
 Kitto, Simon - BA, BEd, DPhil
 Kloiber, Stefan - DrMed
 Knight, Andrea - MD
 Kohut, Sara Helena Ahola - BA, MA, PhD
 Kolla, Nathan - BA, MA, MD, PhD
 Konvalinka, Ana - DrMed
 Korczak, Daphne - BS, MD
 Kotsopoulos, Joanne - BSc, MSc, PhD
 Krzyzanowska, Monika - MPH, MD
 Kuruvilla, John - MD
 Kutryk, Michael - MD
 Kuzyk, Paul - BSc, MD
 Lai, Meng-Chuan - MD, PhD
 Lawler, Patrick - MPH, DrMed
 Lee, Jacques - MSc, MD
 Lee, Jason - BSc, MHPE, MD
 Li, Madeline - MD
 Librach, Clifford - MD
 Lim, Andrew - BSc, MD
 Lin, Steve - MSc, MD
 Lin, Vincent - MD
 Lipsman, Nir - BS, MD, PhD
 Lofters, Aisha - BSc, MD, PhD
 MacRae, Helen - BSc, MA, MD
 Mah, Linda - MHSc, MD
 Mahmud, Farid - MD
 Mailis-Gagnon, Angela - MSc, MD
 Mak, Susanna - MD, PhD
 Malinowski, Ann - BScN, MSc, MD
 Mamdani, Muhammad - DP
 Mandell, Daniel - BSc, MD, PhD
 Maralani, Pejman Jabejdar - MD
 Matheson, Flora - BA, MA, PhD
 Mathur, Sunita - BSc(PT), MSc(PT), PhD
 Maxwell, Cynthia - AB, MD
 Melamed, Nir - MSc, MD
 Menon, Mahesh - PhD
 Mertens, Luc - MD
 Mishra, Sharmistha - BSc, MD
 Mital, Seema - MBBS
 Montandon, Gaspard - MSc, PhD
 Mucsi, Istvan - MD, PhD
 Narang, Indra - MBBS
 Ng, Derek - BSc, MSc, PhD
 Nikolova, Yuliya - BA, PhD
 Penner, Melanie - MD
 Perkins, Bruce - MPH, MD
 Persaud, Navindra - BSc, BA, MSc, MD
 Popovic, Milos - DiplIng, PhD
 Propst, Evan - BA, MSc, MD
 Qadura, Mohammad - BS, MD, PhD
 Regehr, Cheryl - AB, MA, PhD
 Retnakaran, Ravi - MSc, MD
 Rizvi, Sakina - BSc, MASc, PhD
 Rosewall, Tara - MS
 Rozenberg, Dmitry - MD, MedScD
 Rueda, Sergio - MSc, AM, PhD
 Scales, Damon - MD
 Sholzberg, Michelle - BSc, DrMed
 Silversides, Candice - MSc, MD

Singh, Krishna - BSc, MSc, PhD
 St. George-Hyslop, Peter - MD
 Stinson, Jennifer - BScN, MSc, PhD
 Tam, Emily - MD
 Taylor, Valerie - MD
 Thavendiranathan, Paaladinesh - BSc, MSc, MD
 Tripathy, Shreejoy - BSc, PhD
 Vincent, Ajoy - MD, MBBS
 Wadey, Veronica - BSc, BEd, MSc, MD
 Wald, Rachel - MD
 Wasserman, Jonathan - MD
 Widjaja, Elysa - MSc, MPH, MBBS
 Wong, Jean - MD
 Wu, Robert - MSc, MD
 Yeung, Jonathan - BS, MD, PhD
 Yunusova, Yana - MS, MA, PhD
 Zaheer, Juveria - AB, MSc, DrMed
 Zai, Clement - BSc, MSc, PhD
 Zinman, Lorne - MSc, MD

Medical Science: Biomedical Communications MScBMC

Master of Science in Biomedical Communications

Program Description

The MScBMC 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. Students take the same courses in Year 1 and then choose their field at the start of the Summer session between Year 1 and Year 2.

Field: Biomedical Media Design

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. Prerequisite courses: English (or an effective writing substitute); a humanities or social science course; biology; cell and molecular biology and/or histology; introductory physiology.
- At least one third- or fourth-year undergraduate course, or graduate course, from one or more of the following subject areas: Biochemistry, Cell Biology, Embryology, Genetics, Histology, Immunology, Molecular Biology, Pharmacology, or Physiology.
- A [high-quality portfolio of visual material](#); consult the MScBMC website for guidance.

Program Requirements

- **Coursework.** Students must complete **8.5 full-course equivalents (FCEs)** including:
 - in Year 1, complete 5.0 FCEs: MSC 1001Y, MSC 2001Y, MSC 2003Y, MSC 2004H, MSC 2009H, MSC 2020H, and MSC 2023H
 - in Year 2, complete 1.5 FCEs: MSC 2002H, MSC 2012H, and MSC 2018H⁺
 - complete at least 1.0 FCE chosen from MSC 2006H, MSC 2008H, MSC 2015H, and MSC 2016H
 - complete 1.0 FCE chosen from MSC 2007H, MSC 2011H, MSC 2013Y, MSC 2014H, and MSC 2022H (or any other appropriate graduate course[s]).
- Students must complete MSC 2025Y **Master's Research Project for BMC**.

Program Length

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

Time Limit

3 years

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

Field: Biomedical Visualization Design

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.
- At least one third- or fourth-year undergraduate course, or graduate course, from one or more of the following subject areas: Biochemistry, Cell Biology, Embryology, Genetics, Histology, Immunology, Molecular Biology, Pharmacology, or Physiology.
- A [high-quality portfolio of visual material](#); consult the MScBMC website for guidance.

Program Requirements

- **Coursework.** Students must complete **8.5 full-course equivalents (FCEs)** as follows:
 - in Year 1, students must complete 5.0 FCEs: MSC 1001Y, MSC 2001Y, MSC 2003Y, MSC 2004H, MSC 2009H, MSC 2020H, and MSC 2023H
 - in Year 2, complete 1.5 FCEs: MSC 2002H, MSC 2012H, MSC 2018H⁺
 - complete 1.5 FCEs: MSC 2015H, MSC 2016H, and MSC 2017H

- complete 0.5 elective FCE chosen from MSC 2007H, MSC 2011H, MSC 2014H, and MSC 2022H (or any other appropriate graduate course[s]).
- Students must complete MSC 2025Y **Master's Research Project for BMC**.

Program Length

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

Time Limit

3 years

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

Medical Science: Biomedical Communications MScBMC Courses

Consult the Faculty of Medicine each session regarding course offerings.

Required Courses

MSC 1001Y	Human Anatomy
MSC 2001Y	Visual Representation of Medical Knowledge
MSC 2002H	Sequential Medical Communication
MSC 2003Y	Biomedical Communications Technologies
MSC 2004H	Research Methods
MSC 2009H	Ethics and Professionalism in Biomedical Communications
MSC 2012H	Neuroanatomy for Visual Communication
MSC 2018H ⁺	Visual Representation of Processes in Human Pathology
MSC 2020H	Visual Representation of Biomolecular Structure and Function
MSC 2023H	Information Visualization (prerequisite: MSC 1001Y; exclusion: MSC 2019H)
MSC 2025Y	Master's Research Project for BMC

** 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 2005H	Evolution of Medical Illustration
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 2013Y	Master's Research Project and Paper
MSC 2014H	Fundamentals of Scripting for Health Science Communication
MSC 2015H	Interpretive Visualization: Cinematic Design and Preproduction
MSC 2016H	Visualization Methods
MSC 2017H	Visualization Technology
MSC 2022H	Graphic Medicine Seminar

Medical Science: Medical Science MSc

Master of Science

Program Description

The MSc program is 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: Bioethics; Biomedical Science; Clinical Science; Health Professions Education; Population Health/Health Services; and Radiation Oncology.

The program emphasizes 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 undergraduates and 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).

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– (80%) 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 100 on the Internet-based test and 25 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5 with 6.5 in each component.
 - **Certificate of Proficiency in English (COPE):** minimum total of 86 with a minimum writing score of 32, reading score of 22, and listening score of 22. Test of Oral Proficiency assessment band = 7.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 graduate full-course equivalent (FCEs)** as follows:
 - 0.5 FCE: MSC 1010H⁰ *MSC Student Seminars in Translational Research* (Credit/No Credit).
 - 0.5 FCE: MSC modular courses (two courses worth 0.25 FCE each; Credit/No Credit).
 - 1.0 elective FCE.
- 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. Credit is given when the course is completed.

Medical Science: Medical Science PhD

Doctor of Philosophy

Program Description

The PhD program is 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: Bioethics; Biomedical Science; Clinical Science; Health Professions Education; Population Health/Health Services; and Radiation Oncology.

The program emphasizes 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 undergraduates and 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).

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree with an MSc thesis; 2) transfer from the IMS MSc program; or 3) direct entry following completion of an appropriate BSc or MD degree.

PhD Program

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 and examination 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 100 on the Internet-based test and 25 on the writing and speaking sections.
 - International English Language Testing System (IELTS): minimum score of 7.5 with 6.5 in each component.
 - Certificate of Proficiency in English (COPE): minimum total score of 86 with minimum writing score of 32, reading score of 22, and listening score of 22. Test of Oral Proficiency assessment band = 7.
- Applicants may be accepted into the PhD program after completing an MSc degree (with an MSc thesis) with at least A– standing from a recognized university.

Program Requirements

- **Coursework.** Students must complete a minimum of **2.0 graduate full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MSC 1011H⁰ *PhD Student Seminars in Translational Research* (Credit/No Credit).
 - 0.5 FCE: MSC modular courses (two courses worth 0.25 FCE each; Credit/No Credit).
 - 1.0 elective FCE.
 - Students may be required to take extra courses in addition to the degree requirements.
- A **research thesis** must be submitted and the student must pass an **departmental examination** before proceeding to the **Doctoral Final Oral Examination** conducted by the School of Graduate Studies.
- At the end of Year 3, students must have completed all program requirements exclusive of the thesis research in order to achieve candidacy.
- Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Transfer)

Transfer Requirements

- Applicants may be accepted into the PhD program via transfer from the University of Toronto MSc program. Outstanding students may be considered for reclassification/transfer into the PhD program without writing an MSc thesis.

Program Requirements

- Students must complete **3.0 graduate full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MSC 1010H⁰ *MSc Student Seminars in Translational Research* (Credit/No Credit).
 - 0.5 FCE: MSC modular courses (two courses worth 0.25 FCE each; Credit/No Credit).
 - 1.0 elective FCE with a minimum A– average.
 - 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. Alternatively, the Exam Committee may decide that the student must complete the MSc degree before being considered for admission to the PhD program.
 - The successful applicant will enter the PhD program and complete:
 - 0.5 FCE: MSC 1011H⁰ *PhD Student Seminars in Translational Research* (Credit/No Credit) if credit for MSC 1010H has not been obtained prior to transfer.
 - 1.0 elective FCE.
- 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, students must have completed all program requirements exclusive of the thesis research in order to achieve candidacy.
- Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

5 years

Time Limit

7 years

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

PhD Program (Direct-Entry)

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 and examination 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 100 on the Internet-based test and 25 on the writing and speaking sections.
 - International English Language Testing System (IELTS): minimum score of 7.5 with 6.5 in each component.
 - Certificate of Proficiency in English (COPE): minimum total score of 86 with minimum writing score of 32, reading score of 22, and listening score of 22. Test of Oral Proficiency assessment band = 7.
- Students are accepted via direct entry into the PhD program after completing an appropriate BSc or an MD degree, without completing an MSc degree.

Program Requirements

- Coursework.** Students must complete a minimum of **3.0 graduate full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MSC 1011H⁰ *PhD Student Seminars in Translational Research* (Credit/No Credit).
 - 0.5 FCE: MSC modular courses (two courses worth 0.25 FCE each; Credit/No Credit).
 - 2.0 elective FCEs.
 - Students may be required to take extra courses in addition to the degree requirements.
- Students must pass a **qualifying examination** within 18 to 21 months of entry.
- 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 4, students must have completed all program requirements exclusive of the thesis research in order to achieve candidacy.
- Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

5 years

Time Limit

7 years

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

Medical Science: Medical Science MSc, PhD Courses

Not all courses are offered each year. Check the departmental website for [course availability](#).

JCR 1000Y	An Interdisciplinary Approach to Global Challenges
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 and the Cardiovascular System
JCV 3062H	Advanced Topics in Cardiovascular Sciences — Heart Function
JCV 3063H	Advanced Topics in Cardiovascular Sciences — Vascular
JCV 3065H	Advanced Topics in Cardiovascular Sciences — Systems Biology
JDB 1024Y	Topics in Developmental Biology (MSc)
JDB 1025H	Developmental Biology (PhD)
JDB 1026Y	Student Seminars in Developmental Biology (PhD)
JNP 1014Y	Interdisciplinary Toxicology
JNP 1016H	Graduate Seminar in Toxicology
JNP 1017H ⁺	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H ⁺	Molecular and Biochemical Basis of Toxicology
JNR 1444Y	Fundamentals of Neuroscience — Cellular and Molecular
JNS 1000Y	Fundamentals of Neuroscience — Systems and Behaviour
JPM 1005Y	Behavioural Pharmacology
JTB 2010H	Proteomics and Functional Genomics
JTB 2020H	Applied Bioinformatics
MSC 1001Y	Human Anatomy
MSC 1006H	Neuroanatomy
MSC 1008H	Advanced Human Embryology and Teratology
MSC 1010H ⁰	MSc Student Seminars in Translational Research (Credit/No Credit)
MSC 1011H ⁰	PhD Student Seminars in Translational Research (Credit/No Credit)
MSC 1040H	Physiologic Basis of Disease
MSC 1081H	Studies in Schizophrenia
MSC 1085H	Molecular Approaches to Mental Health and Addictions
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 1090H	Introduction to Computational Biostatistics with R
MSC 1100H (0.25 FCE)	Success in Graduate School: a Professional Development Module for MSc Students (Credit/No Credit)
MSC 1101H (0.25 FCE)	Success After Graduate School: a Professional Development Module for PhD Students (Credit/No Credit)
MSC 1102H (0.25 FCE)	Psychiatric Implications of Traumatic Brain Injury (Credit/No Credit)
MSC 1103H (0.25 FCE)	Knowledge Translation (Credit/No Credit)
MSC 1104H (0.25 FCE)	Neurodegenerative Disease (Credit/No Credit)
MSC 1105H (0.25 FCE)	Clinical Trials (Credit/No Credit)
MSC 1107H (0.25 FCE)	Biostatistics in a Nut Shell (Credit/No Credit)
MSC 1108H (0.25 FCE)	Animal Models of Human Diseases (Credit/No Credit)
MSC 1109H (0.25 FCE)	Introduction to Neuroimaging (Credit/No Credit)
MSC 1110H ⁰ (0.25 FCE)	Strategic Training in Transdisciplinary Radiation Science for 21st C (Credit/No Credit)
MSC 1111H (0.25 FCE)	Strategies for Systematic, Scoping, or Other Comprehensive Searches of Literature (Credit/No Credit)
MSC 2003Y	Biomedical Communications Technologies
MSC 2010Y	Molecular Medicine in Human Genetic Disease
MSC 2020H	Visual Representation of Biomolecular Structure and Function (prerequisites: MSC 1001Y, MSC 2001H, MSC 2003Y)
MSC 3001H	Foundations in Musculoskeletal Science
MSC 4001H	Foundations in Resuscitation Science Research
MSC 6000H	Special Topics Reading Course
MSC 7000Y	Regenerative Medicine

⁺ 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. Credit is given when the course is completed.

Medical Science: Health Research GDipHR

Graduate Diploma in Health Research

Program Description

The Graduate Diploma in Health Research provides a select group of medical students high-quality training in health research in order to understand, interpret, and apply the rapid changes in the scientific underpinnings of health care. Future physicians will gain skills relevant to contributing to health-related studies in their future careers, some of whom will become leaders of health research. Taken concurrently with the MD program, the Graduate Diploma in Health Research aims to engage medical students in health research with the intent to develop applicable knowledge and skills that will inform and support a future career in any field of health research.

Minimum Admission Requirements

- Diploma students must meet the School of Graduate Studies minimum admission requirements for master's-level diploma programs. Applicants must be enrolled, and in good academic standing, in Year 1 of the MD program of the Faculty of Medicine of the University of Toronto.
- Applicants must submit the following:
 - curriculum vitae (CV)
 - a personal statement explaining their interest in the program
 - a description of a research project they are interested in
 - written confirmation of Good Standing in the MD program (letter from the program, signed by the Registrar or Vice-Dean)
 - undergraduate and/or graduate academic transcripts.

Program Requirements

- Students must complete a total of **2.5 full-course equivalents (FCEs)** as follows:
 - Two required courses (2.0 FCEs):
 - MSC 1991Y⁰ *Supervised Research Project* (Credit/No Credit).
 - MSC 1992Y⁰ *Research Skills for the Physician-Scientist* (Credit/No Credit).
 - 0.5 elective FCE selected from an approved list. Substitution of any other graduate-level course relevant to the student's research course but not found on the approved list will require completion of a course exemption form signed by the Institute of Medical Science's Graduate Coordinator. The selection of the course will be done in consultation with the Program Director.
- Students must maintain good academic standing in the MD program throughout.

Program Length

5 sessions part-time (W/S/F/W/S)

Time Limit

8 sessions part-time

⁰ Course that may continue over a program. Credit is given when the course is completed.

Medical Science: Health Research GDipHR Courses

Core Courses

MSC 1991Y ⁰	Supervised Research Project (Credit/No Credit)
MSC 1992Y ⁰	Research Skills for the Physician-Scientist (Credit/No Credit)

Approved Elective Courses by Graduate Unit

Health Policy, Management and Evaluation (Dalla Lana School of Public Health)

HAD 5301H	Introduction to Clinical Epidemiology and Health Care Research
HAD 5744H	Introduction to Health Econometrics
HAD 6760H	Introduction to Health Services Research Theory and Methods
MHI 3000H	Independent Reading for Health Informatics

Laboratory Medicine and Pathobiology (Faculty of Medicine)

LMP 1006H	Cellular Imaging in Pathobiology
LMP 1017H	Tissue Injury, Repair, and Regeneration
LMP 1020H	Inflammation, Immunity, and Immunopathology of Atherosclerosis
LMP 1504H	Cell and Molecular Biology of Cardiovascular Diseases
LMP 1510H	Molecular Biology Techniques
LMP 1525H	The Role of Genomics in the Era of Personalized Medicine
LMP 1530H	Next Generation Genomics in Clinical Medicine
LMP 1535H	Mass Spectrometry, Proteomics, and their Clinical Applications
LMP 2120H	Molecular Clinical Microbiology and Infectious Diseases
LMP 2222H	Neurodegenerative Disease — Mechanisms, Models, and Methods

Medical Science (Faculty of Medicine)

JCV 3060H	Advanced Topics in Cardiovascular Sciences — Molecular Biology and Heart Signal Transduction
JCV 3061H	Advanced Topics in Cardiovascular Sciences — Hormones and the Cardiovascular System

JCV 3062H	Advanced Topics in Cardiovascular Sciences — Heart Function
JCV 3063H	Advanced Topics in Cardiovascular Sciences — Vascular
MSC 1002H	Overview of Methods in Practices and Contexts
MSC 1003H	Information, Media, and Communication Literacy for the Sciences
MSC 1081H	Studies in Schizophrenia
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

Medieval Studies

Medieval Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Medieval Studies

MA and PhD

- Fields:
 - Auxiliary Sciences;
 - History and Religion;
 - Language and Literature;
 - Music and Art;
 - Philosophy and Theology

Collaborative Specializations

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

- [Ancient and Medieval Philosophy](#)
 - Medieval Studies, PhD
- [Book History and Print Culture](#)
 - Medieval Studies, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Medieval Studies, PhD
- [Jewish Studies](#)
 - Medieval Studies, MA, PhD
- [Sexual Diversity Studies](#)
 - Medieval Studies, MA, PhD
- [Women and Gender Studies](#)
 - Medieval Studies, MA, PhD

Overview

The Centre for Medieval Studies is concerned with the history, thought, and artistic expression of the various cultures of Europe and adjacent regions over the course of a millennium (circa 500–1500). The Centre for Medieval Studies in Toronto has an international reputation, resting on the wide-ranging interests of its faculty, the calibre and preparation of its graduates, and its outstanding library facilities.

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: 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

Medieval Studies: Graduate Faculty

Full Members

Akbari, Suzanne - BA, MA, MPH, PhD
 Andrée, Alexander - BA, PhD
 Bartlett, Kenneth - BA, MA, PhD
 Black, Deborah - BA, MA, PhD
 Bowen, William - BA, BMus, MA, PhD
 Caskey, Jill - AB, MA, MPH, PhD
 Cochelin, Isabelle - DipdESup, BA, MA, PhD
 Cohen, Adam - PhD
 Dewar, Michael - BA, MA, DPhil
 Dimnik, Martin - BA, MA, MDiv, DPhil
 Eisenbichler, Konrad - BA, MA, PhD
 Everett, Nicholas - BA, MA, PhD
 Gervers, Michael - BA, MA, PhD
 Gillespie, Alexandra - BA, BSc, PhD
 Ginther, James - BA, MA, PhD
 Goering, Joseph - BA, MA, MSL, PhD
 Guenther, Sebastian - MA, PhD
 Haines, John - BSc, BA, MA, PhD
 Hall, Bert - BA, PhD
 Herren, Michael - PhD
 Holmstedt, Robert - BA, MA, PhD
 Iglesias, Yolanda - BA, BA, MA, PhD
 Kavalier, Ethan Matt - PhD
 Keith, Alison - BA, MA, PhD, FRSC
 King, Peter - BA, PhD
 Kivimae, Juri - AM, PhD
 Kullmann, Dorothea - PhD
 Magee, John - BA, MA, PhD (**Director**)
 Meyerson, Mark - BA, PhD
 Miles, Brent - PhD
 Momma, Haruko - BA, MA, MA, PhD
 Mulchahey, M. Michele - BA, MA, PhD
 Murray, Jacqueline - PhD
 Percy, Carol - BA, MA, DPhil
 Pickavé, Martin - MA, PhD
 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
 Silano, Giulio - BA, LLB, BEd, MA, PhD
 Smith, Kyle - BA, MA, PhD

Stock, Markus - MA, PhD
 Subtelny, Maria - BA, PhD
 Sweetman, Robert - BA, MA, PhD
 Terpstra, Nicholas - BA, MA, PhD
 Welsh, Jarrett - BA, MA, PhD

Members Emeriti

Armstrong, Lawrin - BA, MA, MA, MDiv, PhD
 Burke, James - BA, MA, PhD
 Davis, Natalie - BA, MA, PhD
 Dooley, Ann - BA, MA, 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
 Hutchison, Ann - BA, MA, PhD
 Jeaneau, Edouard - BTh, PhD
 Johnston, Alexandra - PhD
 Mayer, Hartwig - PhD, PhD
 McConica, James - STB, BA, MA, DPhil, FRHistS
 McDonough, Christopher - BA, MA, PhD
 Murray, Alexander - BA, PhD
 Northrup, Linda - BA, MA, PhD
 Stock, Brian - AB, PhD
 Taylor, Robert - PhD
 Townsend, David Robert - BA, MA, PhD

Associate Members

Billett, Jesse Dean - AB, MPH, PhD
 Carley, James - BA, MA, PhD
 Diem, Albrecht - MA, PhD
 Dinkova-Bruun, Greti - MA, PhD
 Kaczynski, Bernice - BA, MPH, PhD
 Koopmans, Rachel - BA, MA, PhD
 More, Alison - BA, MA, PhD
 O'Hogan, Cillian - PhD
 Roest, Bert - BA, MA, MA, PhD

Medieval Studies: Medieval Studies MA

Master of Arts

Program Description

Students may be admitted to a one-year MA program as full-time or part-time.

Students may obtain an MA in Medieval Studies by coursework or by a combination of coursework plus thesis.

MA Program (Coursework Option)

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 are required to have taken at least one full-year Latin introductory course with a grade of at least B+ or equivalent.
- Applicants for the MA degree, full-time and part-time, must:
 - Follow application instructions on the centre'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 must pass the Level One Medieval Latin examination upon arrival or else attain credit in MST 1000Y (1.0 full-course equivalent [FCE]) in the first year of enrolment in the MA program.
- For the **coursework option**, students:
 - Who pass the Level One Latin examination upon arrival must successfully complete 3.0 FCEs.
 - Who do not pass the Level One Latin examination on arrival must successfully complete 4.0 FCEs (including MST 1000Y).
- In the MA program, course training in Latin is given at two levels. All students are expected to arrive with knowledge equivalent to at least a first-year university course in Latin language. MST 1000Y *Medieval Latin I* 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 (typical registration sequence: F/W/S);
 6 sessions part-time

Time Limit

3 years full-time;
 6 years part-time

MA Program (Coursework-Plus-Thesis Option)

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 are required to have taken at least one full-year Latin introductory course with a grade of at least B+ or equivalent.

- Applicants for the MA degree, full-time and part-time, must:
 - Follow application instructions on the department's website.
 - Complete forms in which they state the reasons for undertaking graduate studies in the medieval area and their qualifications for applying to do so.

Program Requirements

- MA students must pass the Level One Medieval Latin examination upon arrival or else attain credit in MST 1000Y (1.0 FCE) in Year 1 of the MA program.
- For the **coursework-plus-thesis option**, students must successfully complete:
 - Coursework: 3.0 FCEs or 2.0 FCEs plus a pass at the Level One Latin examination upon arrival in the program.
 - A thesis. An MA thesis must be on a topic approved by the Centre for Medieval Studies. 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 two levels. All students are expected to arrive with knowledge equivalent to at least a first-year university course in Latin language. MST 1000Y Medieval Latin I 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 (typical registration sequence: F/W/S);
6 sessions part-time

Time Limit

3 years full-time;
6 years part-time

Medieval Studies: Medieval Studies PhD

Doctor of Philosophy

Program Description

The PhD is offered only on a full-time basis. Applicants may enter the PhD program via one of two routes: 1) following completion of a master's degree in medieval studies or a related field; or 2) direct entry after completing an appropriate bachelor's degree.

PhD Program

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.

- Applicants enter with 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 the [application instructions](#) on the centre's website.
 - Complete the 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

- During Years 1 and 2, students must take a minimum of **3.0 full-course equivalents (FCEs)**, i.e., 2.0 FCEs in a major field and 1.0 FCE in a minor field. In view of the centre's interdepartmental nature, some of these courses on the Middle Ages can be taken in other departments, with the approval of the PhD Coordinator. MST 1001Y may not be counted towards the 1.0 FCE minor field requirements 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 right before or upon arrival in the program. In addition to the 3.0 FCEs minimum, MST 1003H *Professional Development for Medieval Studies PhDs* (Credit /No Credit) must be taken by all students over the course of the first three years of registration.
- In the PhD program, course training in Latin is given at two levels. **MST 1001Y Medieval Latin II** 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 the end of the Fall session of Year 2, students should have a full Advisory Committee, consisting of a supervisor and two other members. The Advisory Committee must be formally approved by the PhD coordinator. During the Spring session of the same academic year, students should develop the **Special Field Proposal** in consultation with the Advisory Committee. The proposal should be submitted between the end of the Spring session of Year 2 and 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 Special 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 Special Field Examination. In exceptional cases, a student may petition to replace one of the modern languages (French and German) with another language in their area of research. A written request, with a signed confirmation of support for the petition from the supervisor, must be submitted as early as possible, and no later than the end of the Fall session of Year 2 for consideration by the centre's Executive Committee. In the case of a successful petition, the student

will be expected to take the exam no later than the next examination date. Such substitute examinations will be offered no more than two times per year (April and September). Failure to pass all the language exams by the end of Year 3 leads to an automatic failure of the Special Field Examination and thus to termination from the program.

- The purpose of the **Special Field Examination** is to demonstrate both the student's scholarly expertise in the particular area of doctoral dissertation and a broader academic competence. The Special Field Examination has two components: a statement paper and an oral examination. The statement paper is normally five to seven pages (approximately 1,500-2,000 words) and must be submitted to the members of the Advisory Committee and the centre two weeks before the oral examination takes place. The examination is a two-hour-long oral exam. The Special 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 Special Field Examination. Only one retake is permitted and must take place within two months of the first exam. Students who do not pass the Special Field Examination before the beginning of Year 4 will be recommended to SGS for termination of registration.
- After a successful Special 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 must 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.

in the applicant's overall program. Coursework in the medieval period must have formed part of the program

- All applicants must:
 - Follow the [application instructions](#) on the centre's website.
 - Complete the 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

- During Years 1, 2, and 3, students must take a minimum of **5.0 full-course equivalents (FCEs)**, including 2.0 FCEs in a major field and 1.0 FCE in a minor field. In view of the centre's interdepartmental nature, some of these courses on the Middle Ages can be taken in other departments, with the approval of the PhD Coordinator. MST 1001Y may not be counted towards the 1.0 FCE minor field requirements or included in the 5.0 FCEs minimum for the degree, but it must be taken in addition to the 5.0 FCEs minimum by all those who do not pass the Level Two Latin examination right before or upon arrival in the program. In addition to the 5.0 FCEs minimum, **MST 1003H Professional Development for Medieval Studies PhDs (Credit /No Credit)** must be taken by all students over the course of the first three years of registration.
- In the PhD program, course training in Latin is given at two levels. **MST 1001Y Medieval Latin II** 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 the end of the Fall session of Year 3, students should have a full Advisory Committee, consisting of a supervisor and two other members. The Advisory Committee must be formally approved by the PhD coordinator. During the Spring session of the same academic year, students should develop the **Special Field Proposal** in consultation with the Advisory Committee. The proposal should be submitted between the end of the Spring session of Year 3 and the beginning of the Fall session of Year 4. 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 Special 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 Special Field Examination. In exceptional cases, a student may petition to replace one of the modern languages (French and German) with another language in their area of research. A written request, with a signed confirmation of support for the petition from the supervisor, must be submitted as early as possible, and no later than the end of the Fall session of Year 2 for consideration by the centre's Executive Committee. In the case of a successful petition, the student will be expected to take the exam no later than the next examination date. Such substitute examinations will be offered no more than two times per year (April and

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Applicants enter with an appropriate bachelor's degree from a recognized university with an average grade of at least A–

September). Failure to pass all the language exams by the end of the Spring session of Year 4 leads to an automatic failure of the Special Field Examination and thus to termination from the program.

- The purpose of the **Special Field Examination** is to demonstrate both the student's scholarly expertise in the particular area of doctoral dissertation and a broader academic competence. The Special Field Examination has two components: a statement paper and an oral examination. The statement paper is normally five to seven pages (approximately 1,500-2,000 words) and must be submitted to the members of the Advisory Committee and the centre two weeks before the oral examination takes place. The examination is a two-hour-long oral exam. The Special 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 Special Field Examination. Only one retake is permitted and must take place within two months of the first exam. Students who do not pass the Special Field Examination before the beginning of Year 5 will be recommended to SGS for termination of registration.
- After a successful Special Field Examination, i.e., usually during the Spring session of Year 4, 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 must 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 direct-entry PhD in Medieval Studies in five years but some students, depending on their background preparation, find that it takes longer than five 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 five years.

Program Length

5 years

Time Limit

7 years

Medieval Studies: Medieval Studies MA, PhD Courses

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 1114H	Multicultural Arts of Medieval Sicily
FAH 1118H	The Medieval Treasury
FAH 1119H	Global Medieval Art in China
FAH 1121H	12th-Century Renaissance?
FAH 1125H	Medieval Pilgrimage Art and Architecture
FAH 1127H	Early Medieval Art

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
BKS 2001H	Individual 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 5032H	Feminist Approaches to Medieval Literature
COL 5086H	Literature, Culture, and Contact in Medieval Iberia

East Asian Studies

EAS 1143Y	Civilization in Medieval China
-----------	--------------------------------

English

ENG 1001H	Old English I
ENG 1002H	Old English II
ENG 1009H	Writing the Nation: Pre-Modern Historiographies
ENG 1011H	Economies of Medieval Drama: East Anglia, Kent, Sussex
ENG 1013H	Women in Medieval Literature: Image and Author
ENG 1093H	Medieval Vernacular Book
ENG 1551H	The Canterbury Tales
ENG 1552H	Chaucer's Troilus and Criseyde and Other Works
ENG 1582H	Piers Plowman
ENG 1730H	Medieval Drama: The Biblical Cycles and Fragments

French Language and Literature

FRE 1164H	Initiation au français médiéval
FRE 1203H	Séminaire de littérature II : Période

Germanic Languages and Literatures

GER 1200H	Middle High German
GER 1220H	Medieval Arthurian Romance

History

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 1283H	Crusades, Conversion, and Colonialization in the Medieval Baltic (joint graduate/undergraduate)

History and Philosophy of Science and Technology

HPS 1215H	Medieval Technology and Society
-----------	---------------------------------

Italian Studies

ITA 1025H	Old Italian
ITA 1165H	Introduction to Italian Philology
ITA 1200H	Dante
ITA 1202H	Dante as a Reader of Augustine's City of God: Augustinian Textual Communities at the Beginning of the 14th Century
ITA 1203H	Boccaccio
ITA 1330H	Petrarch and Petrarchism
ITA 1535H	Topics in Italian Literature
ITA 1540H	Renaissance Italian Theatre
ITA 1597H	The Commedia dell'Arte

Medieval Studies

MST 1000Y	Medieval Latin I
MST 1001Y	Medieval Latin II
MST 1002H	Advanced Medieval Latin: Boethius (PR)
MST 1003H	Professional Development for Medieval Studies PhDs (Credit/No Credit)
MST 1015H	Medieval Representation of Sexual Dissidence
MST 1020H	The Medieval Latin Epic (PR)
MST 1021H	The Bibliographic Imagination in the Middle Ages
MST 1022H	Transmission and Reception: the Survival and Use of the Latin Classics (Prerequisite: Level One Latin Pass, or permission of instructor. MST 1104H or MST 1105H is recommended.)
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 1115H	English Palaeography (PR)
MST 1327H	Death, Dying, and Society in Medieval Northern Europe

MST 1370H	From Farm to Market: Social and Economic Transformation in Medieval Europe
MST 1371H	Old English Philology: Grammar (PR)
MST 1372H	Why Europe Grew Rich and Asia Did Not: the Great Divergence Debate
MST 1373H	English Language and Literature in Transition, 1100–1250
MST 1383H	Poetry and Prose of the Vercelli Book
MST 1384H	The Exeter Book of Old English Verse (PR)
MST 1388H	The Junius Manuscript: Old Testament Narratives (Prerequisite: ENG 1001H or equivalent)
MST 1398H	Alfredian Prose (Prerequisite: ENG 1001H or equivalent; MA Latin)
MST 1422H	Introduction to the Study of Magic in the Middle Ages
MST 2001H	Old Saxon
MST 2007H	Old High German
MST 2010H	Old Norse I
MST 2015H	Studies in Old Norse Texts (PR)
MST 2018H	Introduction to Celtic Latin (Prerequisite: MST 1001Y or a pass of Level 2 Latin Exam)
MST 2030Y	Old and Middle Irish
MST 2032H	Medieval Irish Poetry 500–1600 (PR)
MST 2033H	Textual Studies in Medieval Irish Poetry (PR)
MST 2037H	Legendary History of Britain and Ireland from Celtic Sources
MST 2038H	Medieval Brittany (PR)
MST 2040H	Beginnings of Medieval Rhetoric and Poetics (PR)
MST 2042H	Medieval Literary Theory in the Later Middle Ages
MST 2051H	Introduction to Middle Welsh
MST 2052H	Medieval Welsh Texts
MST 2055Y	Studies in Middle Welsh Texts (PR)
MST 3015H	Introduction to Ge'ez (Classical Ethiopic)
MST 3016H	Intermediate Ge'ez (Classical Ethiopic) (Prerequisite: MST 3015H)
MST 3021H	Boethius (PR)
MST 3022H	Consolation Through the Ages: Later Medieval Approaches to Boethius's Consolation of Philosophy (PR)
MST 3035H	Medieval Representations of Death, Sickness, and Crime (1100–1500)
MST 3113H	Figures of Heroism in Old English Literature (PR)
MST 3115H	Hospitality and Hostility in Old English Literature (PR)
MST 3123H	Introduction to Medieval Medicine
MST 3124H	Medieval Studies in the Digital Age
MST 3125H	The Medieval Short Story
MST 3126H	The Apocalypse in Medieval English Literature
MST 3135H	Digital Old English
MST 3140Y	Medieval Catalan Language and Literature
MST 3150H	Medieval French Epic: Kings and Heroes (PR)
MST 3152H	Introduction to Medieval Occitan (PR)
MST 3153H	Medieval Occitan Literature
MST 3155H	Middle French Literature
MST 3158H	The Roman de la Rose and Medieval Allegory (PR)
MST 3159H	Classical Antiquity in the French Middle Ages (PR)

MST 3160H	Introduction to Romance Philology: From Vulgar Latin to the First Literary Texts
MST 3163H	Medieval French Historiography
MST 3164H	Medieval French Romance: The Grail
MST 3165H	Vernacular Religious Literature in Medieval France
MST 3203H	Topics in Medieval Economic 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 3225H	Jews and Christians in Medieval and Renaissance Europe
MST 3226H	Medieval Mediterranean History
MST 3231H	Clio's Workshop: Introduction to Historical Methods
MST 3232H	Vernacular Literature in Medieval Europe: Status and Function (Prerequisite: basic reading knowledge of Latin and at least one medieval vernacular language)
MST 3235H	Communal Florence, 1150–1530
MST 3237H	Through the Lens of Monastic Rules and Customaries
MST 3241H	Everyday Life in Medieval Europe
MST 3242H	Carolingian Europe 750–900 CE
MST 3244H	Saints of Early Medieval Italy
MST 3251H	The Merovingians
MST 3255H	Bishops in the High Middle Ages
MST 3262H	Monastic Identities
MST 3301H	Themes in Medieval Philosophy
MST 3309H	Birth of the Will: Augustine and Anselm
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
MST 3327H	Free Will and Human Action in Medieval Philosophy
MST 3346H	Medieval Islamic Philosophy
MST 3501H	Introduction to the Medieval Christian Liturgy
MST 3601H	Medieval Spanish Sources in Context
MST 3602H	Crime and Punishment in the Middle Ages
MST 9310Y, H	Directed Reading
MST 9315H	Directed Reading

NMC 2500H	Early Islamic Art and Architecture
-----------	------------------------------------

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 3653H	Jewish Exegetical Traditions in Antiquity
-----------	---

Slavic Languages and Literatures

SLA 1104H	Introduction to Old Church Slavonic
SLA 1109H	Studies in Old Church Slavonic

Near and Middle Eastern Civilizations

NMC 1500Y	Archaeology, from Alexander to Muhammad
NMC 2090Y	The Prophet and the Caliphates: Early Islamic History to 1258
NMC 2119H	Readings in Medieval Arabic Documents
NMC 2221H	Persian Mirrors for Princes
NMC 2226H	Medieval Persian Historical and Diplomatics

Molecular Genetics

Molecular Genetics: Introduction

Faculty Affiliation

Medicine

Degree Programs

Genetic Counselling

MSc

Medical Genomics

MHSc

Molecular Genetics

MSc and PhD

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Developmental Biology](#)
 - Molecular Genetics, MSc, PhD
- [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 Sciences Building, the MaRS Centre, the Donnelly Centre, the Hospital for Sick Children, Mount Sinai Hospital, and the Ontario Institute for Cancer Research.

Faculty members run a variety of research programs in diverse areas such as genetic models of development and disease; molecular medicine and human genetics; cellular and molecular structure and function; molecular microbiology and infectious disease; computational and systems biology; functional genomics and proteomics.

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

Molecular Genetics: Graduate Faculty

Full Members

Abelson, Sagi - PhD
Andrews, Brenda Jean - BSc, PhD
Andrulis, Irene - BA, PhD
Aubin, Jane - BSc, PhD
Awadalla, Philip - PhD
Bader, Gary - BSc, PhD
Blencowe, Benjamin - BSc, PhD
Boone, Charlie - BSc, PhD
Boulianne, Gabrielle - BSc, PhD
Brill, Julie - PhD
Brown, Martha - BSc, MSc, PhD
Brumell, John - BSc, PhD
Campbell, Kieran - PhD
Campos, Eric - PhD
Chan, Hue Sun - BSc, MA, PhD
Ciruna, Brian - BSc, PhD
Claycomb, Julie - BS, BA, PhD (**Graduate Coordinator**)
Cochrane, Alan - BSc, PhD
Cohn, Ronald - MD
Collins, Richard - BSc, PhD
Cordes, Sabine - BS, PhD
Cowen, Leah - BSc, PhD (**Chair and Graduate Chair**)
Culotti, Joseph - PhD
Davidson, Alan Richard - BSc, PhD
Delgado Olguin, Paul - BSc, PhD
Dennis, James - PhD
Derry, Brent - BSc, MSc, PhD
Dick, John - PhD
Dirks, Peter Benjamin - 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
Frappier, Lori - PhD
Fraser, Andrew - BSc
Funnell, Barbara - PhD
Gallie, Brenda - MD
Gingras, Anne-Claude - BSc, PhD
Gray-Owen, Scott - BS, PhD
Greenblatt, Jack - BSc, PhD
Hopayan, Sevan - BSc, MD, PhD
Huang, Xi - PhD
Hudson, Thomas J. - MD
Hughes, Timothy - BSE, BMus, PhD

Hui, Chi-Chung - PhD
 Hurd, Thomas Ryan - BSc, PhD
 Joshi-Sukhwai, Sadhna - BSc, MSc, PhD, DSc
 Justice, Monica - PhD
 Kafri, Ran - BSc, MSc, PhD
 Kaplan, David - BA, PhD
 Kay, Lewis - PhD
 Kim, Philip - BS, PhD
 Kim, Tae-Hee - PhD
 Krause, Henry - BSc, PhD
 Lavoie, Brigitte - PhD
 Lefebvre, Julie - PhD
 Li, Yun - PhD
 Lipshitz, Howard - PhD
 Liu, Jun - PhD
 Maass, Philipp - PhD
 Meneghini, Marc - BSc, PhD
 Miller, Freda - BSc, PhD
 Moffat, Jason - BSc, PhD
 Moran, Michael - BSc, PhD
 Morris, Quaid - BS, PhD
 Muffat, Julien - PhD
 Navarre, William - BSc, PhD
 Okamoto, Kenichi - BS, MA, PhD
 Osborne, Lucy - PhD
 Park, Jeehye - PhD
 Parkinson, John - BS, PhD
 Pearson, Bret - BS, PhD
 Pearson, Christopher - PhD
 Pelletier, Laurence - BSc, MSc, PhD
 Protze, Stephanie - PhD
 Ramalho-Santos, Miguel - PhD
 Reimand, Juri - MSc, PhD
 Reinke, Aaron - PhD
 Rini, James - BSc, PhD
 Rommens, Johanna - BSc, PhD
 Rossant, Janet - PhD
 Rost, Hannes - PhD
 Roth, Frederick - PhD
 Roy, Peter John - BSc, PhD
 Scherer, Stephen - PhD
 Schramek, Daniel - PhD
 Scott, Ian - BSc, PhD
 Segall, Jacqueline - BSc, PhD
 Sicheri, Frank - BSc, PhD
 Sidhu, Sachdev - BSc, DPhil
 Smibert, Craig - BSc, PhD
 Sondheimer, Neal John - MD, PhD
 Spence, Andrew - BSc, PhD
 Stagliar, Igor - BS, PhD
 Stein, Lincoln - BA, MD, PhD
 Steipe, Boris - MD, PhD
 Van Der Kooy, Derek - BSc, MA, PhD
 Wilde, Andrew Rhys - BSc, PhD
 Wilson, Michael - BSc, PhD
 Wrana, Jeff - PhD
 Yuen, Ryan - 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

Aronson, Melyssa - BS, MS
 Babul-Hirji, Riyana - BSc, MSc
 Care, Melanie - BSc, MSc
 Carroll, Johanna - BA, PhD
 Chitayat, David - MD
 Cytrynbaum, Cheryl - MSc
 Druker, Harriet - MSc
 Dupuis, Lucie - MSc
 Fung, Charlotte - MSc
 Gallinger, Bailey - MSc
 Gibbons, Clare - BS, MSc
 Graham, Tracy - MSc
 Hewson, Stacy - MSc
 Hill, Jessica - BSc, MSc, PhD
 Hoang, Ny - MSc
 Injeyan, Marie - MSc
 Kaiser, Amy - BA
 Klatt, Regan - BSc, MSc
 Lemmens, Trudo - LLM, DCL
 Liston, Eriskay - BA, MSc
 Lorentz, Justin - MSc
 Martin, Nicole - BSc, MS
 McCuaig, Jeanna - MS
 Mendoza, Roberto - MD
 Miron, Ioana - MSc
 Murphy, Jillian - BSc, MSc
 Myles Reid, Diane - BSc, MSc
 Nanda, Sonia - BS, MSc
 Quercia, Nada - BS, MSc
 Semotiuk, Kara - BSc
 Shugar, Andrea - BSc, MS
 Shuman, Cheryl - MSc
 Silver, Rachel - BSc, MSc
 Staines, Andrea - MSc
 Steele, Leslie - BSc, MSc
 Steiner, Martina - PhD
 Styles, Erin - BSc, PhD
 Szego, Michael - BSc, MHSc, PhD
 Uster, Tamarah - BSc, MS
 Watkins, Nicholas - MSc
 Weksberg, Rosanna - MD, PhD
 Yoon, Grace - MD

Molecular Genetics: Genetic Counselling MSc

Master of Science

Program Description

The MSc program is a full-time degree program (non-thesis) that prepares students with relevant academic knowledge and clinical skills so that upon graduating, they may work as highly competent genetic counsellors in a variety of practice settings. Genetic counsellors are employed in many areas of healthcare, providing genetic assessment and counselling to individuals and families with, or at risk for, a genetic disorder. There is also an increasing demand for genetic counsellors to join genetic/genomic testing laboratories, industry, public health settings, etc. Genetic counsellors are often involved in academic activities including teaching and research, administrative leadership roles, advisory roles for government

and/or support organizations, and other precision medicine leadership capacities. This program is accredited by the Accreditation Council for Genetic Counseling.

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.
- A four-year undergraduate degree from a recognized university with a minimum B+ average, both cumulatively and in the upper years.
- Successful completion or proof of current enrolment of undergraduate courses at a recognized university in biology, molecular biology/genetics, biochemistry, embryology/animal developmental biology, statistics, and psychology.
- The development of strong interpersonal and communication skills, as evidenced by experience in a counselling setting (volunteer or paid).
- All applicants must register with the National Matching System (NMS); instructions are provided in the department's [application procedures](#).

Program Requirements

- Students must complete **13.0 full-course equivalents (FCEs)** as follows:
 - 10.0 FCEs in coursework with a minimum B– standing. Lectures, meetings, and rounds must be attended at a minimum of 90% of scheduled occurrences.
 - 1.0 FCE independent research project. Students are expected to develop and implement a research study designed and carried out by them under the supervision of a faculty member. The independent research project must be relevant to the field of genetic counselling and/or clinical genetics. Students must present the independent research project both orally and in a written format suitable for publication.
 - 2.0 FCEs in clinical practicums.
- Students spend a minimum of 21 months over a two-year period in full-time attendance.
- Students are required to complete an intervening summer rotation (six weeks duration).

Program Length

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

Time Limit

3 years full-time

Molecular Genetics: Genetic Counselling MSc Courses

Required Courses

MSC 2010Y	Molecular Medicine 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: Medical Genomics MHSc

Master of Health Science

Program Description

The professional master's program in Medical Genomics is a fast-paced, content-dense degree program delivered over five continuous sessions. This program will provide medical trainees, clinicians, research scientists, and laboratory professionals with the theory and practical knowledge necessary to incorporate the generation, analysis, and interpretation of genomics data into research and medical practice. Preferred applicants have relevant research and/or clinical experience and can demonstrate an immediate and substantive use of this degree in professional practice.

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 BSc degree with high academic standing from a recognized university, with a B+ average or better. Applicants would normally possess an undergraduate degree displaying competence in genetics, molecular biology, or related fields.

- Or an appropriate MD degree with high academic standing from a recognized university, with a B+ average or better.
- Applicants will complete an application package including:
 - all previous university transcripts
 - a transcript summary form for either the [clinical](#) or [laboratory](#) stream
 - curriculum vitae (CV)
 - statement of interest (one to two pages maximum), including how this program will have an impact on future career path
 - three letters of reference from professional, academic, or other qualified referees.
- Interview (15 minutes).

Program Requirements

Students must complete a total of **9.0 full-course equivalents (FCEs)** as follows:

- Year 1:
 - MMG 3001Y *Advanced Human Genetics* (2.0 FCEs, Fall and Winter)
 - MMG 3002Y *Biological Statistics* (1.0 FCE, Fall)
 - MMG 3003Y *Genomics Methodologies* (2.0 FCEs, Winter and Summer).
- Year 2:
 - MMG 3004Y *Communication of Genetic Information* (1.0 FCE, Fall)
 - MMG 3005Y *Ethical and Legal Implications of Genomics* (1.0 FCE, Fall)
 - MMG 3007Y *Clinical Practicum in Medical Genomics*, an elective for clinical-stream students and trainees in patient-facing medical fields (1.0 FCE; Credit/No Credit, Winter)
Or MMG 3008Y *Practicum in Modern Genomics*, an elective for laboratory professional-stream students in clinical/research science careers (1.0 FCE; Credit/No Credit, Winter).
- MMG 3006Y⁰ *Future Directions in Medical Genomics* (1.0 FCE, Credit/No Credit).

Program Length

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

Time Limit

3 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

Molecular Genetics: Medical Genomics MHSc Courses

Required Courses

MMG 3001Y (2.0 FCEs)	Advanced Human Genetics
MMG 3002Y	Biological Statistics

MMG 3003Y (2.0 FCEs)	Genomics Methodologies
MMG 3004Y	Communication of Genetic Information
MMG 3005Y	Ethical and Legal Implications of Genomics
MMG 3006Y ⁰	Future Directions in Medical Genomics (Credit/No Credit)

⁰ Course that may continue over a program. Credit is given when the course is completed.

Required Elective (choose one)

MMG 3007Y	Clinical Practicum in Medical Genomics (Credit/No Credit)
MMG 3008Y	Practicum in Modern Genomics (Credit/No Credit)

Molecular Genetics: Molecular Genetics MSc

Master of Science

Program Description

The MSc program offers 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.

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.
- 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

- Coursework.** Successful completion of **2.0 full-course equivalents (FCEs)**: MMG 1001H, MMG 1002H, MMG 1011H, and MMG 1021H.
- 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

Molecular Genetics: Molecular Genetics PhD

Doctor of Philosophy

Program Description

The PhD program offers 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.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of a BSc, MD, or equivalent degree.

PhD Program

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 MSc degree in Molecular Genetics, or equivalent, from the University of Toronto or another recognized university. As a condition of admission, applicants who have completed their MSc outside of the Department of Molecular Genetics may be required to complete additional course requirements.
- Normally, an MSc degree or equivalent with wet or dry lab experience related to molecular biology, genetics, microbiology, and/or biochemistry is required. Applicants trained in other quantitative sciences (math, physics, chemistry, computer science, engineering, etc.) are also strongly encouraged to apply.
- Attainment of minimum admission standards does not guarantee acceptance into the PhD program.

Program Requirements

- **Coursework.** Successful completion of **1.5 full-course equivalents (FCEs)**: MMG 1031Y⁰ and MMG 1041H⁰.
 - A **thesis** on a research project.

- Students who enter the doctoral program after completing a master's program must spend a minimum of two sessions in full-time attendance.
- Successful completion of a **Qualification Examination** in Year 2. 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

Time Limit

6 years

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

PhD Program (Transfer)

Transfer Requirements

- Transfer applicants must be enrolled in the Department of Molecular Genetics MSc program.
- Students must have successfully completed MMG 1001H, MMG 1002H, MMG 1011H⁰, and must have completed or be enrolled in MMG 1021H⁰ in order to qualify to transfer to the PhD program.
- Transfer applicants must successfully complete a reclassification transfer exam within 24 months of being initially enrolled in the MSc program.

Program Requirements

- **Coursework.** Successful completion of **1.5 full-course equivalents (FCEs)**: MMG 1031Y⁰ and MMG 1041H⁰.
- A **thesis** on a research project.
- Students who transfer to the doctoral program from a master's program must spend a minimum of two sessions in full-time attendance.
- Successful completion of a **Qualification Examination** in Year 2. 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

5 years

Time Limit

7 years

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

PhD Program (Direct-Entry)

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.
- Students with a BSc degree, an MD degree, or equivalent may be accepted directly into the PhD program.
- Normally, a BSc degree or equivalent with academic credentials and wet or dry lab experience related to molecular biology, genetics, microbiology, and/or biochemistry is required. Applicants trained in other quantitative sciences (math, physics, chemistry, computer science, engineering, etc.) are also strongly encouraged to apply.
- Attainment of minimum admission standards does not guarantee acceptance into the PhD program.

Program Requirements

- **Coursework.** Successful completion of **3.5 full-course equivalents (FCEs)**: MMG 1001H, MMG 1002H, MMG 1011H⁰, MMG 1021H⁰, MMG 1031Y⁰, and MMG 1041H⁰.
- A **thesis** on a research project.
- Students who enter the doctoral program from a bachelor's program must spend a minimum of three sessions in full-time attendance.
- Successful completion of a **Qualification Examination** in Year 2. 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

5 years

Time Limit

7 years

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

Molecular Genetics: Molecular Genetics MSc, PhD Courses

JBB 1425H	Structural Biology: Principles and Practice
JBB 2025H	Protein Crystallography
JDB 1024Y	Topics in Developmental Biology
JDB 1025H	Developmental Biology
JDB 1026Y	Student Seminars in Developmental Biology
MMG 1001H	Foundational Genetic Approaches I
MMG 1002H	Foundational Genetic Approaches II
MMG 1011H ⁰	Student Seminars I
MMG 1021H ⁰	Student Seminars II
MMG 1031Y ⁰	Student Seminars III
MMG 1041H ⁰	Topics in Molecular Genetics II
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.

Music

Music: Introduction

Faculty Affiliation

Music

Degree Programs

Music

MA and PhD

- Fields:
 - Ethnomusicology;
 - Music and Health Sciences;
 - Music Education;
 - Musicology;
 - Music Theory

Music Performance

MMus

- Fields:
 - Applied Music and Health;
 - Collaborative Piano;
 - Composition;
 - Conducting;
 - Historical Performance;
 - Instrumental;
 - Jazz;
 - Music Technology and Digital Media;
 - Opera;
 - Piano Pedagogy;
 - Vocal;
 - Vocal Pedagogy

DMA

- Fields:
 - Composition;
 - Performance

Collaborative Specializations

The following collaborative specializations 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 Ancient and Medieval Texts](#)
 - Music, PhD
- [Environmental Studies](#)
 - Music, MA, PhD
- [Human Development](#) (admissions have been suspended)
 - 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

Web: music.utoronto.ca
 Email: grad.music@utoronto.ca
 Telephone: (416) 978-5772
 Fax: (416) 946-3353

Graduate Department of Music
 University of Toronto
 Edward Johnson Building
 80 Queen's Park Crescent
 Toronto, Ontario M5S 2C5
 Canada

Music: Graduate Faculty

Full Members

Albano, Michael
 Apfelstadt, Hilary - PhD
 Bartel, Lee - BA, BMus, MEd, PhD
 Bowen, William - BA, BMus, MA, PhD
 Clark, Caryl - BMus, MA, PhD
 Dolloff, Lori Anne - MusB, PhD
 Edwards, Darryl - BEd, BMus, MMus, DMA
 Elliott, Robin - BMus, MA, PhD
 Gould, Elizabeth - BM, MA, MusDoc
 Gutsche-Miller, Sarah - PhD
 Haines, John - BSc, BA, MA, PhD
 Hatzis, Christos - MusM, PhD
 Hemmasi, Farzaneh - PhD
 Horst, Sandra - BMus, MM
 Huang, Aiyun - DMA
 Johnston, Gregory - MusB, MA, PhD
 Koga, Midori - BMus, AA, MMus, DMA
 Komisaruk, Kevin - BMus, MMus, MusDoc
 Kulesha, Gary - AA, ARCT, ARCT
 Lee, Sherry - BMus, MMus, PhD
 Lockhart, Ellen - PhD
 Macdonald, Lorna - BME, MMus
 MacKay, Gillian - BMus, MMus, DMA

McClelland, Ryan - BMus, MM, PhD (**Associate Dean, Academic and Student Affairs**)
 McFadden, Jeffrey - BMus, MusM, MusDoc
 McLean, Don - PhD (**Dean**)
 McLeod, Kenneth - AM, PhD
 Packman, Jeff - BS, MA, PhD (**Associate Dean, Graduate Education**)
 Palej, Norbert - BM, MM, DMA
 Parker, James - BMus, MM, DMA, ARCT
 Parker, Mary Ann - BA, MM, PhD, ARCT
 Patipatanakoon, Annalee - BAMus
 Patrick, Dennis - MusBac, MMus
 Philcox, Steven - BM, MM
 Pilzer, Joshua David - BA, MA, PhD
 Promane, Terry
 Rapoport, Alexander - MMus, MusDoc
 Reynolds, Jeffrey - BMus, BA, MA, MMus, PhD
 Rolston, Shauna - BA, MM
 Sallmen, Mark - BM, MA, PhD
 Sanger-Kippen, Annette Edith - BAMus, PhD
 Tan, Daphne - PhD
 Taylor, Daniel - MM
 Thaut, Michael - PhD
 Vande Moortele, Steven - PhD (**Associate Dean, Research**)

Members Emeriti

Aide, William - BSc
 Beach, David - BA, MusM, PhD

Associate Members

Hennigar, Marcus - BMus, BA
 Hetherington, David - BA, ARCT
 John, Bina - BM, BE, MM, MusD
 Murley, Mike - BFA
 Nediger, Charlotte - MMus
 Nielsen, Wendy - BMus, MM
 Orlov, Marietta - BM
 Russo, Frank - PhD
 Sanborn, Chase
 Sicsic, Nancy - MMus
 Watts, Camille - BMus

Music: Music MA; Field: Ethnomusicology

Master of Arts (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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MUS 1000H *Introduction to Music Research I* in Year 1
 - 0.5 FCE: 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.
- A course and program advising (CPA) committee will review course selections. The CPA committee will ensure course selections meet the program requirements and are appropriate to the field.
- 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

Music: Music MA; Field: Music and Health Sciences

Master of Arts (Field: Music and Health Sciences)

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 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

- **Coursework.** Students must complete **4.0 full-course equivalents [FCEs]** as follows:
 - Required courses (3.0 FCEs)
 - One of the following quantitative methods research courses (0.5 FCE), approved by the advisor:
 - ◇ CHL 5201H *Biostatistics I*
 - ◇ JOI 1287H *Introduction to Applied Statistics*
 - ◇ NUR 1075H *Introductory Statistics for Health Sciences Research*
 - ◇ REH 1120H *Research Methods for Rehabilitation*
 - MUS 7110H *Neurosciences of Music: Scientific Foundations, Clinical Translations* (0.5 FCE)
 - MUS 7412H *Elementary Improvisation Methods* (0.5 FCE)
 - Three of the following courses (1.5 FCEs) or other course(s) as approved by the department:
 - ◇ MUS 4248H *Optimizing the Singing Mind*
 - ◇ MUS 4613H *Performance Techniques for Hospice Palliative Care*
 - ◇ MUS 7400H *Introduction to Music and Health Care*
 - ◇ MUS 7406H *Music Psychology*
 - ◇ MUS 7407H⁰ *Clinical Research Practicum*
 - ◇ MUS 7415H *Topics in Music and Health I*
 - ◇ MUS 7416H *Topics in Music and Health II*
 - Elective courses (1.0 FCE) from health-related music courses or from health-related departments as approved by the advisor. Students may choose to enrol in a recommended collaborative specialization during their study, such as the Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course or the Collaborative Specialization in Neuroscience. The course(s) taken as part of the collaborative specialization 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 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

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

Music: Music MA; Field: Music Education

Master of Arts (Field: Music Education)

Students may complete the degree program full-time or part-time.

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

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - A minimum of 2.5 FCEs in Music Education, including MUS 2111H *Introduction to Research 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 2990Y⁰) 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 students 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

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

Music: Music MA; Field: Musicology

Master of Arts (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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MUS 1000H *Introduction to Music Research I* in Year 1.
 - 3.0 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 (CPA) committee.
 - The primary means of evaluating quality are research essays and seminar presentations. MUS 1990H *MA Major Paper or Project* is optional.
 - A CPA committee will review course selections. The CPA committee will ensure course selections meet the program requirements and are appropriate to the field.
- **One language** other than English is required. The default language at the MA level is German. Students may petition to substitute another language if it is more relevant to their research. Petitions must be submitted to the Division Head (Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of Music Graduate Studies Office.
- Students can fulfil the language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
- 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

Music: Music MA; Field: Music Theory

Master of Arts (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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MUS 1000H *Introduction to Music Research* 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 or Project* (0.5 FCE) is optional.
 - 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.
- **One language** other than English is required. The default language at the MA level is German. Students may petition to substitute another language if it is more relevant to their research. Petitions must be submitted to the Division Head (Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of Music Graduate Studies Office. Students can fulfil the language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
- 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

Music: Music PhD; Field: Ethnomusicology

Doctor of Philosophy (Field: Ethnomusicology)

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate master's degree or 2) direct entry following completion an appropriate bachelor's degree.

PhD Program

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.

Program Requirements

- **Coursework.** Students holding a master's degree specializing in musicology, ethnomusicology, or theory must fulfil the following requirements by the end of Year 2:
 - **3.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MUS 1250H *PhD Seminar*, taken in the first session
 - 0.5 FCE: MUS 1997H⁰ *Research in Ethnomusicology*
 - 1.0 FCE in graduate-only seminars in ethnomusicology
 - 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 course and program advising (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 1997H⁰ *Research in Ethnomusicology*, which lays the groundwork for the 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.
 - The CPA committee will review course selections to ensure that they 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.
- 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.

- **Supervisor.** During Year 1, students are expected to discuss their interests, expectations, and research objectives with faculty members. An appropriate supervisor of MUS 1997H⁰ must then be agreed upon. The supervisor will be primarily responsible for determining the structure and content of MUS 1997H⁰, 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.
- Students must prepare a **thesis** and will defend it at a Doctoral Final Oral Examination.
- The **residency** requirement for all students is three years, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

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

PhD Program (Direct-Entry)

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. Exceptional students may be admitted directly to the doctoral stream with an appropriate bachelor's degree (direct entry). Applicants must have an average standing of A– 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.

Program Requirements

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - Year 1: complete **3.0 FCEs**, exclusive of MUS 1250H and MUS 1997H⁰. Students must maintain an average grade of at least A– in order to continue with the doctorate; otherwise, the student will be required to

transfer into the master's program. Successful direct entry students go on to Year 2.

- Years 2 and 3: **3.0 FCEs** as follows:
 - 0.5 FCE: MUS 1250H *PhD Seminar*, taken in the first session of Year 2.
 - 0.5 FCE: MUS 1997H⁰ *Research in Ethnomusicology* lays the groundwork for the field examination and the dissertation. This course must be started at the beginning of the second session of Year 2 and completed by the end of the first session of Year 3.
 - 1.0 FCE in graduate-only seminars in ethnomusicology.
 - 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 course and program advising (CPA) committee, one 0.5 FCE course may be deferred to the first session of Year 2.
 - All course requirements must be completed by the end of Year 3.
- The CPA committee will review course selections to ensure that they 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 must complete an intermediate-level **language examination** in Year 1. Advanced oral and reading knowledge of a language other than English is required: this should be relevant to the 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 3.
- **Supervisor.** During Year 1, students are expected to discuss their interests, expectations, and research objectives with faculty members. An appropriate supervisor of MUS 1997H⁰ must then be agreed upon. The supervisor will be primarily responsible for determining the structure and content of MUS 1997H⁰, 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 3.
 - 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 prepare a **thesis** and will defend it at a Doctoral Final Oral Examination.
- The **residency** requirement for all students is three years, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

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

Music: Music PhD; Field: Music and Health Sciences

Doctor of Philosophy (Field: Music and Health Sciences)

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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - Required courses (4.0 FCEs):
 - MUS 7995Y⁰ *Music and Health Doctoral Research Project* (1.0 FCE)
 - Two of the following quantitative methods research courses (1.0 FCE), approved by the advisor:
 - ◇ CHL 5201H *Biostatistics I*
 - ◇ NUR 1075H *Introductory Statistics for Health Sciences Research*
 - ◇ REH 1120H *Research Methods for Rehabilitation*
 - ◇ JOI 1287H *Introduction to Applied Statistics*
 - Four of the following courses (2.0 FCEs) or other course(s) as approved by the department:
 - ◇ MUS 4248H *Optimizing the Singing Mind*
 - ◇ MUS 4613H *Performance Techniques for Hospice Palliative Care*
 - ◇ MUS 7110H *Neurosciences of Music: Scientific Foundations, Clinical Translations*
 - ◇ MUS 7406H *Music Psychology*
 - ◇ MUS 7407H⁰ *Clinical Research Practicum*
 - ◇ MUS 7412H *Elementary Improvisation Methods*
 - ◇ MUS 7415H *Topics in Music and Health I*
 - ◇ MUS 7416H *Topics in Music and Health II*
 - Elective courses (2.0 FCEs) from the Faculty of Music or related departments as approved by the advisor. Students in the Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course or the Collaborative Specialization in Neuroscience may

use the core course(s) from the collaborative specialization for these electives.

- **Residence.** 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.
- **Supervision.** 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 Sciences 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.
- **Thesis.** Upon successful completion of the 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

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

Music: Music PhD; Field: Music Education

Doctor of Philosophy (Field: Music Education)

The PhD program in Music, Music Education field may be completed as a full-time program or a flexible-time program.

PhD Program

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

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** including:
 - At least 2.0 FCEs (including MUS 2995Y⁰ *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.
- **Residence.** Students must be registered full-time and on campus full-time for two years in order to be in such geographical proximity 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.
- **Supervision.** 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, 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.
- **Thesis.** 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.

Program Length

4 years full-time

Time Limit

6 years full-time

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

PhD Program (Flexible-Time)

Minimum Admission Requirements

- 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.
- The admission, course, and degree requirements for the flexible-time option are identical to those listed for the full-time PhD program.
- 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.
- 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.

Program Requirements

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** including:
 - At least 2.0 FCEs (including MUS 2995Y⁰ *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.
- **Residence.** Students must be registered full-time and on campus full-time for two years in order to be in such geographical proximity 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.
- **Supervision.** 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, 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.
- **Thesis.** 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.
- 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 program 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.

Program Length

6 years

Time Limit

8 years

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

Music: Music PhD; Field: Musicology

Doctor of Philosophy (Field: Musicology)

Applicants may enter the PhD program via one of two routes: 1) following completion of an appropriate master's degree or 2) direct entry following completion an appropriate bachelor's degree.

PhD Program

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.

Program Requirements

- **Coursework.** 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:
 - 0.5 FCE: MUS 1250H *PhD Seminar* is taken in the first session
 - 0.5 FCE: MUS 1999H⁰ *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 with an average grade of at least A–. The exception is MUS 1999H⁰, which lays the groundwork for the 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 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.
- 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.
- **Two research languages** in addition to English are required: one secondary and one primary. The goal is to have all language requirements fulfilled by the end of Year 2.
 - **The secondary language requirement** is the same as the MA language requirement. The default language for the secondary language requirement is German. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Students can fulfil the secondary language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
 - Students who have fulfilled the MA language requirement at U of T may count this as the secondary language or use it as a stepping stone towards the primary language. Students are expected to complete the secondary language requirement by the end of Year 1.
 - **The primary language requirement** involves advanced reading proficiency in the chosen language. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of

Music Graduate Studies Office. Students can fulfil the secondary language requirement in one of the following three ways:

- Complete a 400-level language course at U of T or its equivalent from another university, with a minimum grade of B+; or
- Pass a proficiency exam set by the Division; or
- Pass an exam in another graduate unit by arrangement through the Graduate Department of Music.
- Students are allowed two attempts at the **in-house exam**, after which they must take a language course at the appropriate MA or PhD level. All language requirements must be completed by the end of Year 3. Exceptions are granted only in extenuating circumstances and by petition.
- 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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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. Exceptional students may be admitted directly to the doctoral stream with an appropriate bachelor's degree (direct entry). Applicants must have an average standing of A– 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.

Program Requirements

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 3.0 FCEs at the graduate level in Year 1 with a minimum average of A–. The exception is MUS 1999H⁰, which lays the groundwork for the 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.

- An intermediate-level language exam in Year 1. All language requirements 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.
- 0.5 FCE: MUS 1250H *PhD Seminar*, taken in the first session of Year 2.
- 0.5 FCE: MUS 1999H⁰ *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 course and program advising (CPA) committee, one 0.5 FCE course may be deferred to the first session of Year 2.
- The CPA committee will review course selections, ensuring that 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.
- 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 3.
 - 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.
- **Two research languages** in addition to English are required: one secondary and one primary. The goal is to have all language requirements fulfilled by the end of Year 2.
 - **The secondary language requirement** is the same as the MA language requirement. The default language for the secondary language requirement is German. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Students can fulfil the secondary language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
 - Students who have fulfilled the MA language requirement at U of T may count this as the secondary language or use it as a stepping stone towards the primary language. Students are expected to complete the secondary language requirement by the end of Year 1.
 - **The primary language requirement** involves advanced reading proficiency in the chosen language. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of Music Graduate Studies Office. Students can fulfil the secondary language requirement in one of the following three ways:
 - Complete a 400-level language course at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Pass a proficiency exam set by the Division; or
 - Pass an exam in another graduate unit by arrangement through the Graduate Department of Music.
- Students are allowed two attempts at the **in-house exam**, after which they must take a language course at the appropriate MA or PhD level. All language requirements must be completed by the end of Year 3. Exceptions are granted only in extenuating circumstances and by petition.
- 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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

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

Music: Music PhD; Field: Music Theory

Doctor of Philosophy (Field: Music Theory)

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate master's degree or 2) direct entry following completion a bachelor's degree.

PhD Program

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.

Program Requirements

- **Coursework.** Students must complete of a minimum of **3.0 full-course equivalents (FCEs)** including:
 - 0.5 FCE: MUS 1250H *PhD Seminar* (taken in the first session).
 - 0.5 FCE: MUS 3997H⁰ *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 3997H⁰ *Research in Music Theory*, which lays the groundwork for the field examination and 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.
- Students may be required to take additional courses or acquire other skills to meet the needs of their proposed subjects of study.
- 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.
- 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.
- **Two research languages** in addition to English are required: one secondary and one primary. The goal is to have all language requirements fulfilled by the end of Year 2.
 - **The secondary language requirement** is the same as the MA language requirement. The default language for the secondary language requirement is German. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Students can fulfil the secondary language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
 - Students who have fulfilled the MA language requirement at U of T may count this as the secondary language or use it as a stepping stone towards the primary language. Students are expected to complete the secondary language requirement by the end of Year 1.
 - **The primary language requirement** involves advanced reading proficiency in the chosen language. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of Music Graduate Studies Office. Students can fulfil the primary language requirement in one of the following three ways:
 - Complete a 400-level language course at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Pass a proficiency exam set by the Division; or
 - Pass an exam in another graduate unit by arrangement through the Graduate Department of Music.

- Students are allowed two attempts at the **in-house exam**, after which they must take a language course at the appropriate MA or PhD level. All language requirements must be completed by the end of Year 3. Exceptions are granted only in extenuating circumstances and by petition.
- 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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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. 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.
- Applicants, whether from the University of Toronto or elsewhere, may be interviewed by the department.

Program Requirements

- **Coursework.** Students must complete **6.0 full-course equivalents (FCEs)** as follows:
 - 3.0 FCEs at the graduate level in Year 1 with a minimum average of A–. The exception is MUS 3997H⁰ *Research in Music Theory*, which lays the groundwork for the field examination and 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.
 - An intermediate-level language exam in Year 1. All language requirements 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.
 - 0.5 FCE: MUS 1250H *PhD Seminar*, taken in the first session of Year 2.
 - 0.5 FCE: MUS 3997H⁰ *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.
- Students may be required to take additional courses or acquire other skills to meet the needs of their proposed subjects of study.
- 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.
- 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 3.
 - 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.
- **Two research languages** in addition to English are required: one secondary and one primary. The goal is to have all language requirements fulfilled by the end of Year 2.
 - **The secondary language requirement** is the same as the MA language requirement. The default language for the secondary language requirement is German. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Students can fulfil the secondary language requirement in one of the following three ways:
 - Complete GER 300H at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Complete GER 6000H; or
 - Pass a proficiency exam set by the Division.
 - Students who have fulfilled the MA language requirement at U of T may count this as the secondary language or use it as a stepping stone towards the primary language. Students are expected to complete the secondary language requirement by the end of Year 1.
 - **The primary language requirement** involves advanced reading proficiency in the chosen language. Students who wish to choose languages other than German must submit a petition to the Division Head (either Musicology or Music Theory) by the end of the first session of Year 1. Information on petitioning is available at the Faculty of Music Graduate Studies Office. Students can fulfil the primary language requirement in one of the following three ways:
 - Complete a 400-level language course at U of T or its equivalent from another university, with a minimum grade of B+; or
 - Pass a proficiency exam set by the Division; or
 - Pass an exam in another graduate unit by arrangement through the Graduate Department of Music.
- Students are allowed two attempts at the **in-house exam**, after which they must take a language course at the appropriate MA or PhD level. All language requirements must be completed by the end of Year 3. Exceptions are granted only in extenuating circumstances and by petition.
- 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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

Music: Music MA, PhD; Fields: Ethnomusicology and Musicology Courses

Final course offerings may vary. Students should consult the departmental handbook.

MUS 1000H	Introduction to Music Research I
MUS 1001H	Approaches to Musicology
MUS 1002H	Fieldwork Methods and Practicum
MUS 1042H	The Ballets Russes
MUS 1055H	Oratorio
MUS 1056H	Approaches to Meaning in the Renaissance Motet
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 1065H	Music History Pedagogy
MUS 1066H	Music and the Racial and Ethnic Imaginations
MUS 1069H	Remix Music, from Analogue to Digital
MUS 1070H	Music, Genre, and Variation
MUS 1119H	Music and Ceremonial 1550–1700
MUS 1131H	Popular Music and the Immaterial: From Spirituality to Virtuality
MUS 1132H	Community-Engaged Music Archiving
MUS 1134H	Music, Capital, Markets, and Industries

MUS 1137H	Nationalism in Music and Dance
MUS 1140H	Romantic Musings on the Middle Ages
MUS 1141H	Ethnomusicology of Voice
MUS 1142H	Sound, Music, and Everyday Life
MUS 1144H	Music in the Films of Sir Alfred Hitchcock
MUS 1145H	Sonic Innovations in Black Popular Musics
MUS 1146H	Geographies of Opera: Wagner and Puccini
MUS 1149H	Jews' Sonic Worlds from Early Modernity to the Present
MUS 1169H	Listening to Cities: Music, Sound, and Noise in Urban Environments
MUS 1223H	Virtuosity in Baroque Music
MUS 1234H	Health, Aging and Popular Music
MUS 1235H	Topics in Music and the History of Medicine
MUS 1236H	Haydn
MUS 1240H	Diegetic Music in Film
MUS 1246H	Music and Colonialism
MUS 1247H	Sounds and Discourses of Hybridity in Latin American and Caribbean Music
MUS 1250H	PhD Seminar
MUS 1254H	Critical Approaches to Popular Music
MUS 1260H	Music and the Enlightenment
MUS 1267H	Popular Music and Identity
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 1275H	Sound and Music in the Middle East
MUS 1276H	Music and Material Culture
MUS 1277H	Ethnomusicology and Cultural Geography
MUS 1278H	Music and Cultures of Listening in Late Modernity
MUS 1279H	Ethnomusicology without Music
MUS 1280H	Analysis and its Futures in Ethnomusicology
MUS 1317H	Music in Canada

MUS 1990H	MA Major Paper or Project
MUS 1997H ⁰	Research in Ethnomusicology
MUS 1998H	Individual Reading and Research
MUS 1999H ⁰	Research in Musicology

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

Music: Music MA, PhD; Field: Music and Health Sciences Courses

MUS 7110H	Neurosciences of Music: Scientific Foundations, Clinical Translations
MUS 7199H ⁰	Special Research Topic in Music and Health
MUS 7400H	Introduction to Music and Health Care
MUS 7405H	Health in Music Performance
MUS 7406H	Music Psychology
MUS 7412H	Elementary Improvisation Methods
MUS 7415H	Topics in Music and Health
MUS 7416H	Topics in Music and Health II
MUS 7995Y ⁰	Music and Health Doctoral Research Project
MUS 7998H ⁰	Readings in Advanced Topics in Music and Health

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

Music: Music MA, PhD; Field: Music Education Courses

MUS 2001H	Music in Cultural Perspective
MUS 2004H	Music in Childhood
MUS 2010H	Music and Social Movements
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 2115H	Truth and Reconciliation
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 2185H	Curriculum and Instruction in Instrumental Music
MUS 2186H	(Un)popular Music Education
MUS 2199H ⁰	Special Topics in Music Education
MUS 2203H	Development of the Wind Band
MUS 2222H	Conducting and Teaching Choral Music I
MUS 2223H	Conducting and Teaching Choral Music II
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
MUS 3231H	Conducting for Composers
MUS 7406H	Music Psychology
MUS 7412H	Elementary Improvisation Methods

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

Music: Music MA, PhD; Field: Music Theory Courses

MUS 1250H	PhD Seminar
MUS 1990H	MA Major Paper
MUS 1998H	Individual Reading and Research
MUS 3101H	Seminar in Schenkerian Analysis I
MUS 3113H	Symphonic Modernisms, 1900–1925
MUS 3208H	The String Quartet in the Twentieth Century
MUS 3232H	Romantic Form
MUS 3243H	The Music of Elliott Carter
MUS 3245H	Music of Ligeti and Lutoslawski
MUS 3248H	Current Compositional Practices

MUS 3306H	Pedagogy of Music Theory
MUS 3309H	Brahms: Symphonies and Chamber Music
MUS 3316H	Cognitive Perspectives in Music Theory
MUS 3403H	Theory and Analysis of Atonal Music
MUS 3404H	Extended Tonal Techniques in Twentieth-Century Music
MUS 3405H	Topics in the History of Music Theory: 1600–1950
MUS 3412H	Theories of Rhythm and Metre
MUS 3413H	Music and Drama in Wagner's Ring des Nibelungen
MUS 3997H ⁰	Research in Music Theory

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

Music: Music Performance MMus; Field: Applied Music and Health

Master of Music (Field: Applied 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 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 (Bachelor of Music or Bachelor of Arts in Music) and standing from another recognized university.
- Selected applicants must pass an audition and interview.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I* (Year 1)
 - 0.5 FCE: MUS 7110H *Neurosciences of Music: Scientific Foundations, Clinical Translations* (Year 1)
 - 0.5 FCE: MUS 7400H *Introduction to Music and Health Care* (Year 1)
 - 0.5 FCE: MUS 7407H⁰ *Clinical Research Practicum* (Year 1)
 - 0.5 FCE: MUS 7412H *Elementary Improvisation Methods* (Year 1)
 - 0.5 FCE: MUS 7415H *Topics in Music and Health Care I* (Year 1)
 - 0.5 FCE: MUS 7416H *Topics in Music and Health Care II* (Year 2)
 - 1.0 FCE: MUS 4112Y *Clinical Performance Practicum* (Year 2)

- 1.0 FCE: MUS 4115Y *Principles of Clinical Performance Pedagogy* (Year 2)
- 1.0 FCE: general electives (in Music or, with permission, outside of Music).
- MUS 4166Y **Performance Project** (Credit/No Credit) (end of Year 1).
- MUS 4188Y **Public Capstone Presentation** (Credit/No Credit) (end of Year 2).

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.

Music: Music Performance MMus; Field: Collaborative Piano

Master of Music (Field: Collaborative Piano)

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - 0.5 FCE selected from
 - MUS 4600H *Performance Practices Before 1800*
 - MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
 - MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 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*

- 0.5 FCE: MUS 4508H *Collaborative Piano Techniques II* or MUS 4509H *Collaborative Piano Techniques II Vocal*
- 0.5 FCE: elective.
- Based on the outcome of preliminary consultations with the department, students may be required to take:
 - 0.5 FCE: MUS 4520H *Advanced Diction Studies I* or
 - 0.5 FCE: MUS 4521H *Advanced Diction Studies II* or
 - 0.5 FCE: MUS 4522H *Advanced Diction Studies III*.
- **Two recitals**, one in each year:
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field: Composition

Master of Music (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 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.
- Applicants must submit several original compositions, at least one of which shall be with moderately large instrumentation.

Program Requirements

- **Coursework.** Students must complete a minimum of **6.0 full-course equivalents (FCEs)** taken over two years, including:
 - 1.0 FCE: MUS 3100Y *MMus Advanced Composition I*
 - 1.0 FCE: MUS 3105Y *MMus Advanced Composition II*
 - 1.0 FCE: MUS 3990Y *MMus Composition Thesis*
 - 3.0 elective FCEs.
- Students may be required to take courses in addition to the 6.0 FCEs 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**.

Program Length

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

Time Limit

3 years full-time

Music: Music Performance MMus; Field: Conducting

Master of Music (Field: Conducting)

Note: admissions to choral conducting have been administratively suspended for the 2020-21 academic year.

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** including:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1.
 - 0.5 FCE selected from:
 - MUS 4600H *Performance Practices Before 1800* or MUS 4606H *Special Topics in Performance Practice*
 - MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
 - MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - Students in **orchestral conducting** must also complete 3.0 FCEs as follows:
 - 0.5 FCE: MUS 4220H *Orchestral Conducting I*
 - 0.5 FCE: MUS 4221H *Orchestral Conducting II*
 - 1.0 FCE: MUS 4222Y *Advanced Orchestral Conducting*
 - 0.5 FCE: MUS 4223H *Choral Conducting I*
 - 0.5 FCE: elective.
- Students in **wind ensemble conducting** must also complete 3.0 FCEs as follows:
 - 0.5 FCE: MUS 2203H *Development of the Wind Band*
 - 0.5 FCE: MUS 4226H *Wind Ensemble Conducting I*
 - 0.5 FCE: MUS 4227H *Wind Ensemble Conducting II*
 - 0.5 FCE: MUS 4228H *Advanced Wind Conducting I*
 - 0.5 FCE: MUS 4229H *Advanced Wind Conducting II*

- 0.5 FCE: elective.
- Students in **choral conducting** must also complete 3.0 FCEs as follows:
 - 0.5 FCE: MUS 4220H *Orchestral Conducting I*
 - 0.5 FCE: MUS 4223H *Choral Conducting I*
 - 0.5 FCE: MUS 4224H *Choral Conducting II*
 - 1.0 FCE: MUS 4225Y *Advanced Choral Conducting*
 - 1.0 FCE: MUS 4230Y *Vocal-Choral Pedagogy for Conductors*
 - 0.5 FCE: MUS 4700H *Major Ensemble I* (choral).
- **Two recitals**, one in each year:
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field: Historical Performance

Master of Music (Field: Historical 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 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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 5.0 FCEs must include:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1
 - 2.0 FCEs: MUS 4444Y⁰ *Applied Music I* and MUS 4445Y⁰ *Applied Music II*
 - 0.5 FCE selected from:
 - ◊ MUS 4600H *Performance Practices Before 1800*
 - ◊ MUS 4606H *Special Topics in Performance Practice*
 - ◊ MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
 - ◊ MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*

- 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
- 1.0 FCE in large ensembles:
 - ◊ MUS 4774H *Schola Cantorum I* and MUS 4775H *Schola Cantorum II* **or**
 - ◊ MUS 4776H *Collegium Musicum I* and MUS 4777H *Collegium Musicum II*
- 2.0 elective FCEs from a specified list approved by the department.
- **Two recitals**, one in each year. Recitals may include a chamber component with the approval of the department.
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field: Instrumental

Master of Music (Field: Instrumental)

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)**, of which 5.0 FCEs must include:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I* and MUS 4445Y⁰ *Applied Music II*
 - 1.0 FCE selected from
 - MUS 4600H *Performance Practices Before 1800* **or** MUS 4606H *Special Topics in Performance Practice*
 - MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
 - MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
 - Students in brass, percussion, strings, and woodwinds will complete 1.0 FCE as two years of ensemble performance. Placement to be determined by audition.

- Students in piano solo performance must complete MUS 5700H *Piano Master Class I* (0.5 FCE) and MUS 5701H *Piano Master Class II* (0.5 FCE).
- 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**, one in each year. Recitals may include a chamber music component with the approval of the department:
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field: Jazz

Master of Music (Field: Jazz)

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** including:
 - 1.0 FCE: MUS 4300Y, normally taken in Year 1
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - 1.0 FCE: MUS 4606H *Special Topics in Performance Practice* **and** MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
 - 1.0 FCE: either
 - MUS 4310Y *Advanced Jazz Composition and Arranging I* **or**
 - MUS 4311Y *Advanced Jazz Composition and Arranging II* **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:

- Small Group Jazz Ensemble Performance
 - ◊ MUS 4740H *Small Group Jazz Performance I*
 - ◊ MUS 4741H *Small Group Jazz Performance II*
 - ◊ MUS 4742H *Small Group Jazz Performance III*
- Jazz Orchestra
 - ◊ MUS 4750H *Jazz Orchestra I*
 - ◊ MUS 4751H *Jazz Orchestra II*
 - ◊ MUS 4752H *Jazz Orchestra III*
 - ◊ MUS 4753H *Jazz Orchestra IV*
- Vocal Jazz Ensemble
 - ◊ MUS 4760H *Vocal Jazz Ensemble I*
 - ◊ MUS 4761H *Vocal Jazz Ensemble II*
 - ◊ MUS 4762H *Vocal Jazz Ensemble III*
 - ◊ MUS 4763H *Vocal Jazz Ensemble IV*
- **Two recitals**, one in each year. However, students may elect to replace one recital with a significant recording project.
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*

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.

Music: Music Performance MMus; Field: Music Technology and Digital Media

Master of Music (Field: Music Technology and Digital Media)

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.
- Applicants must submit a portfolio (e.g., scores, recordings, multimedia creations) that demonstrates at least two of the following:
 - knowledge of computer applications in music;
 - competency in music performance or composition (acoustic or digital);
 - released body of musical works/recordings as composer, sound engineer, or producer.
- Selected applicants must pass an audition and interview.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - Year 1 (3.5 FCEs)
 - 0.5 FCE: MUS 3610H *Music Entrepreneurship: Music and Cities*
 - 0.5 FCE: MUS 3611H *Creative Applications of Technology I*
 - 0.5 FCE: MUS 3612H *Creative Applications of Technology II*
 - 0.5 FCE: MUS 3614H *Sound Recording I*
 - 0.5 FCE: MUS 3615H *Sound Recording II*
 - 1.0 elective FCE:
 - ◊ 0.5 FCE selected from Music Technology and Digital Media and
 - ◊ 0.5 FCE selected from any of the Faculty of Music graduate courses.
 - Year 2 (3.5 FCEs)
 - 0.5 FCE: JDM 3619H *Digital Media Distribution* (Credit/No Credit)
 - 2.0 FCEs: electives selected from an approved department list, or from another graduate unit, with permission.
 - 1.0 FCE: MUS 3666Y⁰ *Music Technology and Digital Media Major Project* (Credit/No Credit), 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.

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. Credit is given when the course is completed.

Music: Music Performance; MMus Field: Opera

Master of Music (Field: Opera)

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, taken in Year 1
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - 1.0 FCE: MUS 4513Y *Operatic Repertory*, taken in Year 2
 - 2.0 FCEs: MUS 4900Y *Operatic Studies I* and MUS 4901Y *Operatic Studies II*
 - 0.5 FCE: elective chosen from a specified list approved by the department.
- **Performance** in operatic productions will be evaluated by a committee and assigned grades under MUS 4966Y⁰ *Operatic Roles I* (1.0 FCE) and MUS 4988Y⁰ *Operatic Roles II* (1.0 FCE).

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.

Music: Music Performance MMus; Field:
Piano Pedagogy

Master of Music (Field: Piano 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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1.
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*.
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*.
 - 0.5 FCE: MUS 4270H *Piano Pedagogy: Beginning and Intermediate Levels*

- 0.5 FCE: MUS 4271H *Practicum: Beginning and Intermediate Levels*
- 0.5 FCE: MUS 4272H *Piano Pedagogy: Advanced and University Levels*
- 0.5 FCE: MUS 4273H *Practicum: Advanced and University Levels*
- 0.5 FCE selected from:
 - MUS 4600H *Performance Practices Before 1800*
 - MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
 - MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
- 1.0 FCE: electives.
- **Two recitals.** With approval, one recital may be replaced by a pedagogy project and presentation.
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field:
Vocal

Master of Music (Field: Vocal)

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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **7.0 full-course equivalents (FCEs)** as follows:
 - 4.0 FCEs must include:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - 0.5 FCE selected from:
 - ◇ MUS 4600H *Performance Practices Before 1800* or MUS 4606H *Special Topics in Performance Practice*;

- ◊ MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*;
- ◊ MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
- 3.0 FCEs: electives chosen from a specified list approved by the department.
- **Two recitals.** Recitals may include a chamber music component with the approval of the department.
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance MMus; Field: Vocal Pedagogy

Master of Music (Field: 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.
- Selected applicants must pass an audition.

Program Requirements

- **Coursework.** Students must complete **8.0 full-course equivalents (FCEs)** as follows:
 - 1.0 FCE: MUS 4200Y *Critical Approaches to Music History*, normally taken in Year 1
 - 0.5 FCE: MUS 4210H *Introduction to Music Analysis*
 - 0.5 FCE selected from:
 - MUS 4213H *Advanced Repertoire for Singers and Pianists I*
 - MUS 4231H *Advanced Vocal Repertoire Study I*
 - 1.0 FCE: MUS 4240Y *Introduction to Voice Pedagogy and Vocology*
 - 1.0 FCE: MUS 4241Y *Advanced Vocal Pedagogy and Vocology*
 - 0.5 FCE: MUS 4248H *Optimizing the Singing Mind*
 - 1.0 FCE: MUS 4444Y⁰ *Applied Music I*
 - 1.0 FCE: MUS 4445Y⁰ *Applied Music II*
 - 0.5 FCE selected from
 - MUS 4600H *Performance Practices Before 1800*

- MUS 4610H *Analysis and Performance: Music of the Eighteenth and Nineteenth Centuries*
- MUS 4615H *Analysis and Performance Practices of Twentieth-Century Music*
- 0.5 FCE: MUS 7406H *Music Psychology*
- 0.5 FCE: elective chosen from a list of courses approved by the department.
- **Two recitals:**
 - 1.0 FCE: MUS 6666Y⁰ *Recital I*
 - 1.0 FCE: MUS 8888Y⁰ *Recital II*.

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.

Music: Music Performance DMA; Field: Composition

Doctor of Musical Arts (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

- **Coursework.** Students must complete a minimum of **5.0 full-course equivalents (FCEs)**, including:
 - 1.0 FCE: MUS 3300Y *DMA Advanced Composition I*
 - 1.0 FCE: MUS 3305Y *DMA Advanced Composition II*
 - 1.0 FCE: MUS 3999Y⁰ *Research in Composition*, 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 beyond the 5.0 FCEs.
- Upon completion of coursework, students are required to present a **recital of original works** (MUS 3888Y⁰ *DMA Recital of Works*; 1.0 FCE) 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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years full-time

Time Limit

6 years full-time

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

Music: Music Performance DMA; Field: Performance

Doctor of Musical Arts (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

- **Coursework.** Students must complete a minimum of **5.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: MUS 4800H *DMA Seminar*, taken in the first session.
 - 0.5 FCE: MUS 4899H *Research in Performance*, begun in the second session.
 - 1.0 FCE: MUS 4844Y⁰ *Advanced Applied Music I*.
 - 1.0 FCE: MUS 4845Y⁰ *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 4899Y *Research in Performance*, to be taken in the Winter session of Year 1 and the Fall of Year 2, which lays the groundwork for the dissertation

research and leads to a field examination at the end of Year 2; and

- MUS 4845Y⁰ *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 **field examination**. If students are unsuccessful in their second attempt at the field examination, the department will make a recommendation for program termination.
- **Three DMA recitals.**
 - 1.0 FCE: MUS 4866Y⁰ *DMA Recital I*
 - 1.0 FCE: MUS 4877Y⁰ *DMA Recital II*
 - 1.0 FCE: MUS 4888Y⁰ *DMA Recital III*.
 - The format of these recitals will be determined in consultation with the supervisor 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 **residence** requirement is two years, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years full-time

Time Limit

6 years full-time

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

Music: Music Performance MMus; Field: Applied Music and Health Courses

MUS 4112Y	Clinical Performance Practicum
MUS 4115Y	Principles of Clinical Performance Pedagogy
MUS 4166Y	Performance Project (Credit/No Credit)
MUS 4188Y	Public Capstone Presentation
MUS 4444Y ⁰	Applied Music I
MUS 7110H	Neurosciences of Music: Scientific Foundations, Clinical Translations
MUS 7400H	Introduction to Music and Health Care
MUS 7407H ⁰	Clinical Research Practicum
MUS 7412H	Elementary Improvisation Methods
MUS 7415H	Topics in Music and Health Care I
MUS 7416H	Topics in Music and Health Care II

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

Music: Music Performance MMus, DMA; Field: Composition Courses

Final course offerings may vary. Students should consult the departmental handbook.

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 3203H	Score Analysis for Composers and Conductors
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 3222H	Composing for Film
MUS 3223H	Berg
MUS 3224H	Sonata Form
MUS 3225H	Music of Gubaidulina, Coulthard, and Chen
MUS 3229H	The Twentieth-Century Symphony
MUS 3232H	Romantic Form: The Orchestral Music of Berlioz, Mendelssohn, Schumann, and Wagner
MUS 3244H	Music Recording
MUS 3245H	The Music of Ligeti and Lutoslawski
MUS 3258H	Songwriting (prerequisite: MIDI Orchestration and Improvisation)
MUS 3260H	The New Polish School of Composition
MUS 3300Y	DMA Advanced Composition I
MUS 3305Y	DMA Advanced Composition II
MUS 3306H	Pedagogy of Music Theory
MUS 3309H	Brahms: Symphonies and Chamber Music
MUS 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 3421H	Composing for Theatre
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 in Composition
MUS 4615H	Analysis and Performance Practices of Twentieth-Century Music

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

Music: Music Performance MMus, DMA; Field: Performance Courses

MUS 4200Y	Critical Approaches to Music History
MUS 4210H	Introduction to Music Analysis

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 4228H	Advanced Wind Conducting I
MUS 4229H	Advanced Wind Conducting II (prerequisite: MUS 4228H)
MUS 4231H	Advanced Vocal Repertoire Study I
MUS 4232H	Advanced Vocal Repertoire Study II
MUS 4234H	Explorations in Performance
MUS 4240Y	Introduction to Voice 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 4298H	Readings and Research in Performance Studies
MUS 4230Y	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 4302H	Advanced Ear Training and Harmony
MUS 4303H	Rhythm for Improvisation
MUS 4310Y	Advanced Jazz Composition and Arranging I
MUS 4311Y	Advanced Jazz Composition and Arranging II
MUS 4312H	Advanced Jazz Improvisation I
MUS 4313H	Advanced Jazz Composition and Arranging II (prerequisite: MUS 4310Y)
MUS 4314H	Advanced Jazz Improvisation 2

MUS 4376H	Piano Literature — Baroque and Classical
MUS 4377H	Piano Literature — Romantic and Contemporary
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 4438H	Improvisation for Strings
MUS 4439H	Flute-Guitar Masterclass
MUS 4440H	Flute-Guitar Masterclass II
MUS 4444Y ⁰	Applied Music I
MUS 4445Y ⁰	Applied Music II
MUS 4502H	Collaborative Piano Techniques I
MUS 4506H	Sonata Coaching I
MUS 4507H	Sonata Coaching II
MUS 4508H	Collaborative Piano Techniques II (prerequisite: MUS 4502H)
MUS 4509H	Collaborative Piano Techniques II Vocal (prerequisite: MUS 4502H)
MUS 4512H	Operatic Répétiteur
MUS 4513Y	Operatic Repertory
MUS 4520H	Advanced Diction Studies I
MUS 4521H	Advanced Diction Studies II
MUS 4522H	Advanced Diction Studies III
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
MUS 4613H	Performance Techniques for Hospice Palliative Care
MUS 4615H	Analysis and Performance Practices of Twentieth-Century Music
MUS 4616H	Topics in Interactive Digital Media and Performance
MUS 4617H	The 21st Century Creative Performer: An Interdisciplinary Inquiry to Performance and Performance Practice
MUS 4620H	Analysis and Performance of Chamber Music
MUS 4626H,Y	Music Internship (Credit/No Credit)

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 4710H	Chamber Music I
MUS 4711H	Chamber Music II
MUS 4712H	Chamber Music III
MUS 4716H	Chamber Choir III
MUS 4720H	Opera I
MUS 4721H	Opera II
MUS 4722H	Opera III
MUS 4723H	Opera IV
MUS 4740H	Small Group Jazz Performance I
MUS 4741H	Small Group Jazz Performance II
MUS 4742H	Small Group Jazz Performance III
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
MUS 4767H	Instrumental Performance Class Woodwinds II
MUS 4770H	Oratorio Ensemble I
MUS 4771H	Oratorio Ensemble II
MUS 4774H	Schola Cantorum I
MUS 4775H	Schola Cantorum II

MUS 4776H	Collegium Musicum I
MUS 4777H	Collegium Musicum I
MUS 4785H	Orchestral Studies I
MUS 4786H	Orchestral Studies II
MUS 4787H	Instrumental Performance Class Woodwinds
MUS 4791H	Instrumental Performance — Guitar
MUS 4792H	Instrumental Performance — Guitar II
MUS 4795H	Piano/Instrumental I
MUS 4796H	Piano/Instrumental II
MUS 4800H	DMA Seminar
MUS 4810H	Seminar in Performance Literature
MUS 4815H	Seminar in Performance Pedagogy
MUS 4816H	Researching Performance/Performing Research
MUS 4817H	Nineteenth-Century Music in Context: Beethoven to Mahler
MUS 4819H	String Pedagogy Practicum (prerequisite: MUS 4815H)
MUS 4820H	DMA Study in Masterclass Teaching
MUS 4821H	DMA Study in Undergraduate Piano Pedagogy
MUS 4826H	Core and Current Readings in Jazz Scholarship
MUS 4838H	Twentieth- and Twenty-First-Century Interpretive Analysis
MUS 4844Y ⁰	Advanced Applied Music I
MUS 4845Y ⁰	Advanced Applied Music II
MUS 4855Y	DMA Elective Recital
MUS 4866Y ⁰	DMA Recital I
MUS 4877Y ⁰	DMA Recital II
MUS 4888Y ⁰	DMA Recital III
MUS 4899H	Research in Performance
MUS 4899Y	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 6666Y ⁰	Recital I
MUS 7412H	Elementary Improvisation Methods
MUS 8888Y ⁰	Recital II

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

Music: Music Performance MMus; Field: Music Technology and Digital Media Courses

MUS 3610H	Music Entrepreneurship: Music and Cities
MUS 3611H	Creative Applications of Technology I
MUS 3612H	Creative Applications of Technology 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	Music Mixing and Production (prerequisites: MUS 3612H and MUS 3615H)
MUS 3617H	Production for Multi-Channel Immersive Audio (prerequisites: MUS 3612H and MUS 3616H)
MUS 3618H	Studio Orchestration and Arranging
JDM 3619H	Digital Media Distribution (Credit/No Credit)
MUS 3624H	Topics in Interactive Digital Media and Performance
MUS 3630H	Interactive Music and Sound for Video Games
MUS 3632H	Video for Intermedia Performance
MUS 3666Y ⁰	Music Technology and Digital Media Major Project (Credit/No Credit)
MUS 3806H	Computer-Assisted Sound Design and Composition (prerequisites: MUS 3611H, MUS 3612H, or equivalent)

⁰ Course that may continue over a program. Credit is given when the course is completed.

Music: Courses Recognized for MMus in Music Performance and MA Graduate Credit

Available to MA students only with the permission of the department.

MUS 1090H	Topics in Ethnomusicology
--------------	---------------------------

Near and Middle Eastern Civilizations

Department of Near and Middle Eastern Civilizations
University of Toronto
2nd Floor, 4 Bancroft Avenue
Toronto, Ontario M5S 1C1
Canada

NMC: Introduction

NMC: Graduate Faculty

Faculty Affiliation

Full Members

Arts and Science

Aksan, Virginia - BA, MA, MLS, PhD
Beaulieu, Paul-Alain - LLB, BA, MA, PhD
Daviau, Michele - MTh, PhD
Fox, Harry - BSc, BA, MS, MA, PhD
Goebs, Katja - MA, DPhil
Grzymiski, 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
Miller, Jeanne - BA, MA, PhD
Mittermaier, Amira - MA, PhD
Newman, Judith - PhD
Ostapchuk, Victor - BA, PhD
Pouls Wegner, Mary-Ann - BA, PhD
Raffaelli, Enrico - PhD
Reichel, Clemens - MA, PhD
Reilly, James - BA, MA, 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

Degree Programs

Near and Middle Eastern Civilizations

MA and PhD

- Fields:
 - Ancient and Near Eastern Studies;
 - Middle Eastern and Islamic Studies

Collaborative Specializations

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

- [Diaspora and Transnational Studies](#)
 - Near and Middle Eastern Civilizations, MA, PhD
- [Jewish Studies](#)
 - Near and Middle Eastern Civilizations, MA, PhD
- [Mediterranean Archaeology](#)
 - Near and Middle Eastern Civilizations, PhD
- [Sexual Diversity Studies](#)
 - Near and Middle Eastern Civilizations, MA, PhD
- [Women and Gender Studies](#)
 - Near and Middle Eastern Civilizations, MA, PhD

Members Emeriti

Garshowitz, Libby - BA, MA, PhD
Golombek, Lisa - BA, MA, PhD
Keall, Edward - BA, PhD
Lutz, R. Theodore - MA
Northrup, Linda - BA, MA, PhD
Pietersma, Albert - BA, BD, PhD
Sandler, Rivanne - BA, MA, PhD

Associate Members

Ali, Abdel-Khalig - BA, MA, PhD
Bahoor, Haytham - BA, MA, PhD
Baker, Heather D. - DPhil
Branting, Scott - BA, MA, MA, PhD
Emon, Anver - LLB, BA, LLM, MA, PhD, SJD
Fadel, Mohammad - BA, JD, PhD
Hojatollah Taleghani, Azita - BA, MA, MA, PhD
Mason, Robert - BA, PhD
Porter, Anne - BA, MA, MA, PhD

Overview

In the Department of Near and Middle Eastern Civilizations, 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: nmc.utoronto.ca
Telephone: (416) 978-3181
Fax: (416) 978-3305

NMC: Near and Middle Eastern Civilizations MA

Master of Arts

Program Description

Depending on the amount of undergraduate preparation, students may enrol in either a two-year MA program or a one-year MA 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.

MA Program (One-Year Option)

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 to focus on 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 was not English must demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.

Program Requirements

Coursework Option

- Students must complete 3.0 full-course equivalents (FCEs).

Thesis Option

- Students must complete a thesis (1.0 FCE) under the guidance of a supervisor on a topic approved by the supervisor.
- 2.0 FCEs in coursework.

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

MA Program (Two-Year Option)

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 to focus on 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 was not English must demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.

Program Requirements

All students must complete 6.0 full-course equivalents (FCEs). Students who choose to focus on Islamic art and material culture must successfully complete at least 2.0 FCEs each in art and in Near and Middle Eastern Civilizations.

Coursework Option

- Students must complete 6.0 FCEs.

Thesis Option

- Students must complete a thesis (1.0 FCE) under the guidance of a supervisor on a topic approved by the supervisor.
- 5.0 FCEs in coursework.

Program Length

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

Time Limit

3 years full-time;
6 years part-time

NMC: Near and Middle Eastern Civilizations PhD

Doctor of Philosophy

Program Description

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate MA or 2) direct entry following completion of a bachelor's degree.

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:
 - 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.
 - 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 must demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- The program of study is determined in consultation with the department and includes **written and oral general examinations**.
- Each year of the PhD program, students are obligated to consult with their advisor and Graduate Coordinator to see that appropriate coursework is done and that the language requirements are completed on schedule.
- The minimum **course requirement** will normally be **6.0 full-course equivalents (FCEs)** as follows:
 - Year 1: 3.0 FCEs
 - Year 2: 3.0 FCEs
- Students who have 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 area of study at the BA level. Coursework and all language requirements are to be completed by the end of Year 2.
- In consultation with the supervisor, examining committee, and supervisory committee (if it has already been established), students will prepare a **short draft proposal** of two to four pages with bibliography by May of Year 2.

The short draft proposal will direct some of the preparation for the **comprehensive examinations** which will take place by the end of the first session of Year 3. A final proposal of at least 10 pages plus bibliography is to be approved by the supervisory committee within one to two months of the completion of the comprehensive exams.

- Students are required to demonstrate reading comprehension in **two languages** of modern scholarship (typically French and German), the first by the end of Year 1 in residence, and the second by the end of Year 2 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.
- Residence.** 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.
- Thesis.** The thesis must embody the results of original investigation and constitute a significant contribution to knowledge in the field. It must be based on research conducted while registered in the PhD program. The thesis must be successfully defended at a Final Oral Examination.

Program Length

4 years full-time; 5 years direct-entry

Time Limit

6 years full-time; 7 years direct-entry

NMC: Near and Middle Eastern Civilizations MA, PhD Courses

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 1008Y	Babylonian Archival Texts (Late Periods) (prerequisite: NMC 1001Y)
NMC 1009Y	Introduction to Sumerian

Ancient Egyptian Language and Literature

NMC 1201Y	Introduction to Middle Egyptian
-----------	---------------------------------

NMC 1202Y	Middle Egyptian Texts
NMC 1203Y	Late Egyptian Texts
NMC 1204Y	Cursive Script
NMC 1209H	Old Egyptian Texts
NMC 1210H	Ancient Egyptian Historical Texts
NMC 1213H	Ancient Egyptian Religious and Funerary Literature
NMC 1215H	Ancient Egyptian Instructional Texts (prerequisites: NMC 1201Y, NMC 1202Y)

Arabic Studies

NMC 2100Y	Elementary Modern 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	Adab and Arabic Literary Prose
NMC 2131H	Premodern Arabic Poetry

Aramaic-Syriac Language and Literature

NMC 1100Y	Introduction to Aramaic
NMC 1101Y	Early Syriac Texts
NMC 1102Y	Palestinian Aramaic Texts
NMC 1105Y	Syriac Historical Texts
NMC 1106Y	Syriac Exegetical Texts
NMC 1110H	Palestinian Targum
NMC 1111Y	Babylonian Aramaic

Archaeology

NMC 1400H	The Archaeology of the Pre- and Protohistoric Civilizations of the Near East
NMC 1404H	Archaeological Reconstructions of Pottery Production and Consumption in the Middle Euphrates
NMC 1406Y	Problems in the Archaeology of Bronze 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 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	Ancient Iraq
NMC 1424H	The Art and Archaeology of Syria
NMC 1425H	Mesopotamian Material Culture . Art versus Artifact
NMC 1426H	Sacred or Secular Space — Mesopotamian Architecture in Context
NMC 1427H	Archaeology of State Societies
NMC 1429Y	Polarized-Light Microscopy in Archaeology
NMC 1430H	Warfare — The Archaeology of Conflict
NMC 1500Y	Archaeology, from Alexander to Muhammad

Hebrew Language and Literature

NMC 1306H	Scribes, Manuscripts, and Translations of the Hebrew Bible
NMC 1307H	History of Ancient Israel
NMC 1308H	Readings in Hebrew Bible
NMC 1310H	Readings in Second Temple Period Texts
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 1327H	Themes in Midreshic Literature
NMC 1328H	Intertextuality: Tannaitic and Amoraic Literature
NMC 1330H	Introduction to Modern Hebrew I
NMC 1331H	Introduction to Modern Hebrew II
NMC 1332H	Intermediate Modern Hebrew I
NMC 1333H	Intermediate Modern Hebrew II
NMC 1334H	Advanced Modern Hebrew I
NMC 1335H	Advanced Modern Hebrew II
NMC 1336H	Modern Academic Hebrew

History

NMC 1010H	Mesopotamian Society and Economy
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 2080H	Theory and Method in Middle Eastern Studies
NMC 2081H	Anthropology of the Middle East
NMC 2090Y	The Prophet and the Caliphates: Early Islamic History to 1258
NMC 2117H	Readings in Medieval Arabic Chronicles
NMC 2119H	Readings in Medieval Arabic Documents
NMC 2129H	Arabic Manuscript Studies (prerequisite: NMC 2101Y or NML211Y or the equivalent)
NMC 2170H	Topics in Modern Arab History I
NMC 2171H	Topics in Modern Arab History II
NMC 2172H	The Politics of Archaeology in the Modern Middle East
NMC 2173H	Intellectuals of the Modern Arab World
NMC 2180H	Iranian Modernity
NMC 2225Y	History of Iran: From the Sasanians to the Safavids
NMC 2226H	Medieval Persian Historiography and Diplomats
NMC 2230H	The First World Empire: The Achaemenids

NMC 2231H	Alexander and Iran
NMC 2232H	Iran After Alexander: From the Seleucids to the Parthians
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 2541Y	Contextualizing Medieval Middle Eastern and Islamic Pottery

Topics in Law and Religion

NMC 1605H	Special Topics in Comparative Religious Law
NMC 1608H	Gender Issues in Jewish Law

Linguistics

NMC 1651H	Phoenician and Punic Epigraphy
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 2204Y	Avestan
NMC 2205Y	Middle Persian (Pahlavi)
NMC 2206Y	Old Persian
NMC 2219H	Persian Literature: The Epic Tradition
NMC 2220H	Persian Literature: Ethical, Erotic, Mystical
NMC 2221H	Persian Mirrors for Princes

NMC 2224H	The Visionary Tales of Suhrawardi, Master of Illuminationist Philosophy
NMC 2225Y	History of Iran: From the Sasanians to the Safavids
NMC 2227H	Zoroastrian Cosmic History: From Genesis to Universal Judgment
NMC 2228H	Zoroastrian Apocalyptic Literature: To the Netherworld and Beyond
NMC 2229H	Persians, Greeks, and Romans: Friendly Enemies

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 2052H	Islamic Religious Thought
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 Diplomatics
NMC 2340Y	Studies in Ottoman and Turkish Literature
JNE 2320H	Modern Turkey

Other Courses

NMC 2000Y	Directed Reading
NMC 2001Y	Directed Reading and Research

Nursing Science

Nursing Science: Introduction

Faculty Affiliation

Nursing

Degree Programs

Nursing Science

MN

- Fields:
 - Clinical Nursing;
 - Health Systems Leadership and Administration;
 - Nurse Practitioner
- Emphases (Nurse Practitioner field only):
 - Adult;
 - Paediatric;
 - Primary Health Care . Global Health

DN

Note: Admissions to the new Doctor of Nursing have been delayed. It is expected that admissions will reopen in time to admit students for Fall 2021.

PhD

Diploma Programs

Post-Master's Nurse Practitioner (PMNP)

DipNP

- Emphases:
 - Adult;
 - Paediatric;
 - Primary Health Care — Global Health

Collaborative Specializations

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

- [Addiction Studies](#)
 - Nursing Science, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Nursing Science, MN, PhD
- [Bioethics](#)
 - Nursing Science, MN, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Nursing Science, PhD
- [Resuscitation Sciences](#)
 - Nursing Science, MN, PhD
- [Women's Health](#)
 - Nursing Science, MN, PhD

Overview

The Lawrence S. Bloomberg Faculty of Nursing is committed to student-centred learning that encompasses the principles of empowerment, engagement, discovery, diversity, equity, and knowledge transformation for nursing practice.

Students have opportunities to engage with expert clinicians, scientists, and theorists and have access to a variety of interprofessional and interdisciplinary experiences with other health profession Faculties, the University, and community partners. These resources enable students to develop their intellectual capacity; their research, critical thinking, judgment abilities; and skills required to be exemplar nurses, advanced practice nurses, leaders, scientists, scholars, and educators.

Contact and Address

Web: bloomberg.nursing.utoronto.ca

Email: ask.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

Nursing Science: Graduate Faculty

Full Members

Chu, Charlene - BSc, BScN, MN, PhD
Cleverley, Kristin - BN, MSN, PhD
Conway, Aaron - PhD
Cranley, Lisa - BScN, MN, PhD
Dale, Craig - BSc, PhD
Dennis, Cindy-Lee - BScN, MSN, PhD
Gastaldo, Denise - BSN, MA, PhD
Grundy, Quinn - BScN, PhD
Hillan, Edith - MPH, MSc, PhD
Howell, Doris - BNSc, MSN, PhD
Jibb, Lindsay - PhD
Johnston, Linda - BSc, PhD (**Dean**)
Mayo, Samantha - BSc, MN, PhD
McGillis, Linda - BHA, MSN, PhD
McGilton, Kathy - BScN, MN, PhD
Metcalf, Kelly - BNSc, PhD
Muntaner, Carles - MHSc, MD, PhD
Nelson, Sioban - PhD
Parry, Monica - BScN, MSc, MEd, PhD
Peter-Hardtke, Elizabeth - BA, BSN, MSN, PhD
Puts, Martine - BN, MHSc, PhD
Stevens, Bonnie - BSc, MSN, PhD
Stinson, Jennifer - BScN, MSc, PhD
Stremler, Robyn - BSc, MASc, PhD, RN
Tourangeau, Ann - BScN, MN, PhD (**Associate Dean, Academic**)
Widger, Kimberley - BScN, MN, PhD
Wright, Amy - BScN, MSc, PhD

Members Emeriti

Donner, Gail - PhD
 Gallop, Ruth - BSN, MSN, PhD
 Pringle, Dorothy - BScN, MS, PhD
 Watt-Watson, Judith - BSN, MSN, PhD

Associate Members

Acorn, Michelle - BSN, MN, PhD
 Andrews, Martine - MN, PhD
 Ballantyne, Marilyn - MHSc, PhD
 Bedard, Philippe - BA, MD
 Blackwood, Bronagh - PhD
 Blastorah, Margaret - BScN, PhD
 Chenier-Hogan, Nicole - MSc
 Colella, Tracey J.F. - MSc, PhD
 Godkin, Dianne - BScN, MN, PhD
 Hardie, Catherine - BSN, MSN, EdD
 Janes, Nadine - BScN, MSc, PhD
 Joolae, Soodabeh - BNSc, MSc, PhD
 Kim, Raymond - MD
 Knechtel, Leasa - BScN, MN
 Lok, Jana - BSc, BScN, MN, PhD
 Louis, Joanne - BSN, MS, MN
 MacIver, Jane - PhD
 McCleary, Lynn - BSc, MSc, DPhil
 Mednikov Shcharinsky, Alina - MN
 Mehta, Sangeeta - MD
 Merklinger, Sandra - BScN, MN, PhD
 Mohammed, Shan - BScN, BSc, MN, PhD
 Nagle, Lynn - BN, MN, PhD
 Rose, Louise - BN, MN, PhD
 Simmonds, Anne - BScN, MN, PhD
 Steele, Rose - PhD
 Thomson, Heather - BN, MN, PhD
 Trip, Katherine - BScN, BScN, MN, MN
 Velonis, Alisa Joy - PhD
 Wilson, Jean - BScN, MHSc

Nursing Science: Nursing Science MN

Master of Nursing

Program Description

The MN 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; and Nurse Practitioner.

Field: Clinical 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.
- 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 must hold current registration as a Registered Nurse or equivalent.
- For further information about applying, please email connect.nursing@utoronto.ca or visit the [website](#).

Program Requirements

- To qualify for the degree, students shall complete a program of study outlined by the Graduate Department of Nursing Science.
- **Coursework.** The MN program requires **5.0 full-course equivalents (FCEs)** as follows:
 - NUR 1170H, NUR 1171H, NUR 1174H, NUR 1175H, NUR 1176H, and NUR 1177H;
 - a 1.0 FCE practicum-based course (NUR 1179Y), which should be taken alone in the final session and only after completion of all other coursework and program requirements;
 - two elective field of study courses (1.0 FCE). One of these two field of study courses may be selected from outside the Faculty of Nursing.

Program Length

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

Time Limit

3 years full-time

Field: Health Systems Leadership and Administration

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 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 must hold current registration as a Registered Nurse or equivalent.
- For further information about applying, please email connect.nursing@utoronto.ca or visit the [website](#).

Program Requirements

- To qualify for the degree, students shall complete a program of study outlined by the Graduate Department of Nursing Science.
- **Coursework.** The MN program requires **5.0 full-course equivalents (FCEs)** including:

- NUR 1016H, NUR 1027H, NUR 1127H, NUR 1151H, NUR 1152H, NUR 1156H, NUR 1157H, and NUR 1161H;
- a 1.0 FCE practicum-based course (NUR 1169Y), 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 1151H in Year 1 and the second embedded in NUR 1169Y 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 1156H and NUR 1027H
 - Winter — NUR 1127H and NUR 1151H*
 - Summer — NUR 1152H*
- **Year 2** course sequencing:
 - Fall — NUR 1016H and NUR 1161H
 - Winter — NUR 1157H
 - Summer — NUR 1169Y*
- *NUR 1151H and NUR 1169Y both include a required on-campus, in-class learning experience. NUR 1152H and NUR 1169Y include a required practicum component and required eLearning activities.

Program Length

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

Time Limit

3 years full-time

Field: Nurse Practitioner

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 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 must hold current registration as a Registered Nurse or equivalent and must have a minimum of two years of clinical experience as a Registered Nurse.
- For further information about applying, please email connect.nursing@utoronto.ca or visit the [website](#).

Program Requirements

- To qualify for the degree, students shall complete a program of study outlined by the Graduate Department of Nursing Science.

- **Coursework.** The MN program requires **5.5 full-course equivalents (FCEs)**, including:
 - NUR 1094H, NUR 1095H, NUR 1097H, and NUR 1138H;
 - a combination of courses based on the student's emphasis:
 - Adult: NUR 1101H; NUR 1115H; NUR 1140H; NUR 1141H; NUR 1215H; and NUR 1221Y **or**
 - Paediatric*: NUR 1102H; NUR 1116H and NUR 1216H; NUR 1144H; NUR 1145H; and NUR 1222Y **or**
 - Primary Health Care — Global Health: NUR 1114H; NUR 1117H and NUR 1217H; NUR 1142H; NUR 1143H; and NUR 1223Y
 - NUR 1221Y, NUR 1222Y, and NUR 1223Y 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 a hybrid learning format including online and required on-campus, in-class learning.
- *The Paediatric emphasis is available to students every other year. Visit the [Faculty of Nursing website](#) for details.

Program Length

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

Time Limit

3 years full-time

Nursing Science: Nursing Science DN

Doctor of Nursing

Admissions to the new Doctor of Nursing have been delayed. It is expected that admissions will reopen in time to admit students for Fall 2021.

Program Description

The Doctor of Nursing (DN) is a professional doctoral program designed to prepare nurses with the required skills to apply knowledge in diverse settings and (a) lead in dynamic, fast-paced, technologically advanced and sophisticated health-care environments and (b) teach in nursing education. Students will engage in advanced education related to leadership and knowledge application in health-care or nursing education.

The DN is offered in a hybrid online (required courses) and on-site (required residencies) delivery model. Students will normally complete this full-time program in eight sessions compressed over three years due to cohort-based delivery and extensive use of the Summer sessions.

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 a master's degree in nursing or a closely related field, such as education, public health, health science, health policy, or business administration, with a minimum B+ standing from a recognized university.
- Applicants must hold current registration as a Registered Nurse and must have a minimum of two years of relevant health-care leadership experience or advanced nursing education teaching experience.
- Applicants must provide three reference letters: two work-related and one academic.
- Applicants must submit a letter of intent outlining their reasons for applying to the program and a proposed thesis project.
- Applicants whose primary language is not English and who have graduated from a university where the primary language of instruction and examination is not English must demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements. An interview may be required.

Program Requirements

- **Coursework.** Students must successfully complete a total of **4.0 full-course equivalents (FCEs)** as follows:
 - 1.5 required FCEs: NUR 1301H, NUR 1302H, and NUR 1303H
 - 0.5 elective FCE relevant to the student's focus: NUR 1331H, NUR 1332H, NUR 1333H, NUR 1334H, or NUR 1335H
 - 2.0 FCEs in seminar courses: NUR 1311H, NUR 1312H, NUR 1313H, and NUR 1314H.
- **Internships or practica.** Students must complete two internships (health-care leadership) or two practica (educational leadership).
- **Residencies.** Students must complete three residencies consisting of intensive on-campus classes.
- **Symposium.** In the final session, students will present their thesis and discuss knowledge transfer and exchange plans for implementing their innovations in practice, policy, and/or education.
- **Literature review paper.** Students must demonstrate their ability to review, analyze, and synthesize relevant material by the end of the third session (Year 1). The paper includes published and peer-reviewed research, gray literature, policies, guidelines, etc.
- **Thesis.** Students must complete a written thesis proposal by the end of the fifth session (Year 2). The thesis requires students to identify and investigate a practice problem, articulate and apply theory and evidence to the problem, design strategies for action to address the problem, report on strategies implemented to address the problem, and discuss the results and knowledge dissemination plan.
- **Doctoral Final Oral Examination (FOE).** Students must complete an FOE of the thesis by the end of the final session in Year 3.

Program Length

4 years

Time Limit

6 years

Nursing Science: Nursing Science PhD

Doctor of Philosophy

Program Description

The full-time PhD program prepares scientists with the required analytical and research skills to study nursing, health systems, or other related problems.

Applicants may enter the PhD program via one of two routes:

- 1) ing completion of an appropriate master's degree; or
- 2) transfer from the University of Toronto MN program.

PhD 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 a master's degree or its equivalent in nursing or related field with at least a B+ standing from a recognized university.
- 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. See [General Regulations section 4.3](#) for requirements.
- For further information about admissions, please contact the Graduate Department of Nursing Science.

Program Requirements

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)
 - Research methods course NUR 1079Y *Research Methods for Knowledge Discovery* (1.0 FCE)
 - one course (0.5 FCE) related to the substantive area of the field of study and thesis plans
 - one 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 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 March 1 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.
- The literature review paper must be submitted by September 30 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

Nursing Science: Nursing Science PMNP Diploma

Post-Master's Nurse Practitioner (PMNP) Diploma

Program Description

The PMNP Diploma provides students holding an appropriate graduate degree the opportunity to develop the knowledge and skills required to practise as a nurse practitioner. Students choose one of the following emphases: Adult, Paediatric, or Primary Health Care . Global Health.

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:

- Emphasis: Adult
 - NUR 1101H *Advanced Health Assessment and Clinical Reasoning (Adult)*

- NUR 1115H *Advanced Health Assessment and Therapeutic Management (Adult) 1*
- NUR 1140H *Pathophysiology and Pharmacotherapeutics 1 (Adult)*
- NUR 1141H *Pathophysiology and Pharmacotherapeutics 2 (Adult)*
- NUR 1215H *Advanced Health Assessment and Therapeutic Management (Adult) 2*
- NUR 1221Y *Nurse Practitioners: Roles and Issues (Adult)*
- Emphasis: Paediatric
 - NUR 1102H *Advanced Health Assessment and Clinical Reasoning (Paediatric)*
 - NUR 1116H *Advanced Health Assessment and Therapeutic Management (Paediatric) 1*
 - NUR 1144H *Pathophysiology and Pharmacotherapeutics 1 (Paediatric)*
 - NUR 1145H *Pathophysiology and Pharmacotherapeutics 2 (Paediatric)*
 - NUR 1216H *Advanced Health Assessment and Therapeutic Management (Paediatric) 2*
 - NUR 1222Y *Nurse Practitioners: Roles and Issues (Paediatric)*
- Emphasis: Primary Health Care . Global Health
 - NUR 1114H *Advanced Health Assessment and Clinical Reasoning (Primary Health Care — Global Health)*
 - NUR 1117H *Advanced Health Assessment and Therapeutic Management (Primary Health Care — Global Health) 1*
 - NUR 1142H *Pathophysiology and Pharmacotherapeutics 1 (Primary Health Care — Global Health)*
 - NUR 1143H *Pathophysiology and Pharmacotherapeutics 2 (Primary Health Care — Global Health)*
 - NUR 1217H *Advanced Health Assessment and Therapeutic Management (Primary Health Care — Global Health) 2*
 - NUR 1223Y *Nurse Practitioners: Roles and Issues (Primary Health Care — Global Health)*
- NUR 1221Y, NUR 1222Y, and NUR 1223Y must be taken alone in the final session and only after completion of all other coursework and program requirements.
- In each emphasis, four courses require learners to be engaged in [clinical practice](#).

Program Length

6 sessions (2 years) part-time

Time Limit

6 years part-time

Nursing Science: Nursing Science MN, DN, PhD, Diploma Courses

NUR 1016H	Health Systems, Policy, and the Profession
NUR 1021H	Nursing Ethics
NUR 1024H	Foundations of Qualitative Inquiry

NUR 1025H	Doing Qualitative Research: Design and Data Collection
NUR 1027H	Integrated Approaches to Research Appraisal and Utilization Part 1
NUR 1036H	Advanced Nursing Practice in Oncology
NUR 1038H	Social Determinants of Health in a Global Context
NUR 1040H	Issues in Women's Health Care
NUR 1045H	Theories of Pain: Impact on the Individual, Family, and Society
NUR 1046H	Persistent Illness: Theoretical, Research, and Practice Implications
NUR 1049H	Nursing Approaches to Common Physiological and Behavioural Manifestations of Critically Ill Patients
NUR 1050H	Coping With Illness
NUR 1057H	Interventions to Enhance Health, Abilities, and Well-being
NUR 1059H	Informatics: Theory and Application in Nursing
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	Mental Health Topics in Advanced Practice Nursing
NUR 1074H	Facilitating Learning: Nursing Perspectives
NUR 1075H	Introductory Statistics for Health Sciences Research
NUR 1076H	Intermediate Statistics for Health Sciences Research
NUR 1077H	Implementation Science in Healthcare (Prerequisite: NUR 1027H or equivalent.)
NUR 1079Y	Research Methods for Knowledge Discovery
NUR 1081Y	PhD Student/Faculty Seminars
NUR 1083H	Comparative Politics of Health Policy in Globalizing World
NUR 1085H	Topics in Critical Perspectives in Health and Health Care
NUR 1086H	Nursing Health Services Research Methods
NUR 1087H	Foundations of Clinical Research
NUR 1094H	Research Design, Appraisal, and Utilization: Nurse Practitioner
NUR 1095H	Introduction to Qualitative Research: Methodologies, Appraisal, and Knowledge Translation: Nurse Practitioner
NUR 1097H	Program Planning and Evaluation in Nursing: Nurse Practitioner (Prerequisite: NUR 1094H)
NUR 1101H	Advanced Health Assessment and Clinical Reasoning (Adult) (Prerequisite: NUR 1140H and NUR 1141H)
NUR 1102H	Advanced Health Assessment and Clinical Reasoning (Paediatric) (Prerequisite: NUR 1144H and NUR 1145H)
NUR 1114H	Advanced Health Assessment and Clinical Reasoning (Primary Health Care — Global Health) (Prerequisite: NUR 1142H and NUR 1143H)
NUR 1115H	Advanced Health Assessment and Therapeutic Management (Adult) 1 (Prerequisites: NUR 1101H, NUR 1140H, NUR 1141H)

NUR 1116H	Advanced Health Assessment and Therapeutic Management (Paediatric) 1 (Prerequisites: NUR 1102H, NUR 1144H, NUR 1145H)
NUR 1117H	Advanced Health Assessment and Therapeutic Management (Primary Health Care . Global Health) 1 (Prerequisites: NUR 1114H, NUR 1142H, NUR 1143H)
NUR 1127H	Integrated Approaches to Research Appraisal and Utilization Part 2 (Prerequisite: NUR 1027H)
NUR 1138H	Global Health Topics for Nurse Practitioners
NUR 1140H	Pathophysiology and Pharmacotherapeutics 1 (Adult)
NUR 1141H	Pathophysiology and Pharmacotherapeutics 2 (Adult)
NUR 1142H	Pathophysiology and Pharmacotherapeutics 1 (Primary Health Care — Global Health)
NUR 1143H	Pathophysiology and Pharmacotherapeutics 2 (Primary Health Care — Global Health)
NUR 1144H	Pathophysiology and Pharmacotherapeutics 1 (Paediatric)
NUR 1145H	Pathophysiology and Pharmacotherapeutics 2 (Paediatric)
NUR 1151H	Theories and Concepts in Nursing Leadership and Administration
NUR 1152H	Leading and Managing Effective Health Care Teams
NUR 1156H	History of Ideas in Nursing Practice: Health Systems Leadership and Administration
NUR 1157H	Program Planning and Evaluation in Nursing: Health Systems Leadership and Administration (Prerequisite: NUR 1027H)
NUR 1161H	Advanced Concepts in Leadership and Administration (Prerequisites: NUR 1151H, NUR 1152H)
NUR 1169Y	Advanced Nursing Practice Scholarship: Health Systems Leadership and Administration
NUR 1170H	Introduction to Advanced Practice Nursing
NUR 1171H	Topics in Advanced Practice Nursing
NUR 1174H	Research Design, Appraisal, and Utilization: Clinical
NUR 1175H	Introduction to Qualitative Research: Methodologies, Appraisal, and Knowledge Translation: Clinical
NUR 1176H	History of Ideas in Nursing Practice: Clinical
NUR 1177H	Program Planning and Evaluation in Nursing: Clinical (Prerequisite: NUR 1174H)
NUR 1179H	Advanced Nursing Practice Scholarship: Clinical
NUR 1215H	Advanced Health Assessment and Therapeutic Management (Adult) 2 (Prerequisites: NUR 1101H, NUR 1115H, NUR 1140H, NUR 1141H)
NUR 1216H	Advanced Health Assessment and Therapeutic Management (Paediatric) 2 (Prerequisites: NUR 1102H, NUR 1116H, NUR 1144H, NUR 1145H)
NUR 1217H	Advanced Health Assessment and Therapeutic Management (PHC GH) 2 (Prerequisites: NUR 1114H, NUR 1117H, NUR 1142H, NUR 1143H)

NUR 1221Y	Nurse Practitioners: Roles and Issues (Adult) (Prerequisites: NUR 1101H, NUR 1115H, NUR 1140H, NUR 1141H, NUR 1215H)
NUR 1222Y	Nurse Practitioners: Roles and Issues (Paediatric) (Prerequisites: NUR 1102H, NUR 1116H, NUR 1144H, NUR 1145H, NUR 1216H)
NUR 1223Y	Nurse Practitioners: Roles and Issues (Primary Health Care — Global Health) (Prerequisites: NUR 1114H, NUR 1117H, NUR 1142H, NUR 1143H, NUR 1217H)
NUR 1301H	Leadership: Health Services and Education
NUR 1302H	Implementation Science: Health Services and Education
NUR 1303H	Policy and Politics in Nursing Practice and Education
NUR 1311H	DN Seminar 1 (Credit/No Credit)
NUR 1312H	DN Seminar 2 (Credit/No Credit; prerequisite: NUR 1311H)
NUR 1313H	DN Seminar 3 (Credit/No Credit; prerequisite: NUR 1312H)
NUR 1314H	DN Seminar 4 (Credit/No Credit. Must be taken in the final session of the DN program. All other DN courses must be completed prior to enrolment in NUR 1314H.)
NUR 1331H	Analysis and Application of Individual and Population Health Data
NUR 1332H	Informatics and Technologies for Practice Advancement
NUR 1333H	Equity and Ethics in Healthcare Leadership
NUR 1334H	Quality Improvement, Safety, and Evaluation Science
NUR 1335H	The Scholarship of Teaching and Learning in Healthcare Practice and Education

Nutritional Sciences

Nutritional Sciences: Introduction

Faculty Affiliation

Medicine

Degree Programs

Nutritional Sciences

MSc and PhD

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Food Studies](#)
 - Nutritional Sciences, MSc, PhD
- [Human Development](#) (admissions have been suspended)
 - Nutritional Sciences, MSc, PhD
- [Indigenous Health](#)
 - Nutritional Sciences, MSc, PhD
- [Public Health Policy](#)
 - Nutritional Sciences, MSc, PhD
- [Women's Health](#)
 - Nutritional Sciences, MSc, PhD
- [Toxicology](#)
 - Nutritional Sciences, MSc, PhD

Overview

The Department of Nutritional Sciences is one of the few departments of nutrition in North America to be located within a Faculty of Medicine. This, together with its close linkages with the University of Toronto's Dalla Lana School of Public Health, allows the department to fully explore the relationships between nutrition and human health and disease, and to influence clinical practice and public health programs. It also creates unique opportunities for collaboration with the highest concentration of University-affiliated hospitals, clinicians, and health researchers in North America.

Although the department is centered in the Basic Sciences sector of the Faculty, its activities include not only basic science but also clinical and community aspects of nutrition and food and nutrition policy. These activities that range from "bench to b..... to populations" make it a model of integration within the whole of the health sciences complex at U of T, enabling a full exploration of the relationships between

nutrition and human health to influence both clinical practice and public health policy.

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: 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

Nutritional Sciences: Graduate Faculty

Full Members

Anderson, Harvey - BSc, MSc, PhD
 Bandsma, Robert - MD
 Bazinet, Richard - BSc, PhD
 Bhutta, Zulfiqar - MBBS, PhD
 Boyd, Norman - MD
 Comelli, Elena - MSc, PhD
 El-Soheemy, Ahmed - BSc, MSc, PhD
 Hamilton, Jill - BSc, MSc, MD
 Hanley, Anthony - BSc, MSc, PhD (**Graduate Coordinator, Admissions and Awards**)
 Jenkins, David J.A. - BA, MA, MD, MB, BS, PhD
 Kotsopoulos, Joanne - BSc, MSc, PhD
 L'Abbé, Mary - BSc, MSc, PhD (**Chair and Graduate Chair**)
 Leiter, Lawrence - BSc, MD
 Maguire, Jonathon - BSc, MSc, MSc, MD
 McCrindle, Brian - MD
 Narod, Steven - BSc, MD
 O'Connor, Deborah - BASc, MS, PhD (**Interim Chair and Interim Graduate Chair**)
 Pencharz, Paul - MD, MB, ChB
 Roth, Daniel - BSc, MSc, MD
 Sellen, Daniel - BA, AM, PhD
 Sherman, Philip - MD
 Sievenpiper, John - BASc, MFS, MD, 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
 Greenwood, Carol - BSc, MSc, PhD
 Jeejeebhoy, Khursheed - MB, PhD
 Kronl, 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
Birken, Catherine - MSc, MD
Boucher, Beatrice Ann - BSc, MHSc
Fox, Ann - BAA, MHSc, PhD
Hobin, Erin - BEd, BBA, MA, PhD
Josse, Robert - BSc, MBBS
Levitt, Anthony - MBBS, DGO, MB
Ma, David - BSc, PhD
Malik, Vasanti - BS, MS, ScD
Pausova, Zdenka - MD
Potvin Kent, Monique - BA, BA, MA, PhD
Tomlinson, Christopher - BSc, MBChB, PhD
Yeung, David - BA, MA, PhD

Nutritional Sciences: Nutritional Sciences MSc

Master of Science

Program Description

The aim of the MSc program is to develop the student's abilities to conceptualize research problems in the area of human nutrition, synthesize ideas and approaches in the research problem, analyze and interpret data, transmit his or her findings to peers, and expand his or her knowledge in, and perspective of, the field of human nutrition. Thus, major emphasis is placed on the research project and thesis.

The MSc program can be taken on a full-time or part-time basis. A limited number of students are admitted to the program on a part-time basis.

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

- **Coursework.** Students must complete **2.0 full-course equivalents (FCEs)** as follows:
 - participation in NFS 1204Y *Master's Seminars in Nutritional Sciences* (1.0 FCE) throughout their period of full-time registration and
 - a minimum of two half courses (1.0 FCE).
- 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

Nutritional Sciences: Nutritional Sciences PhD

Doctor of Philosophy

Program Description

The aim of the PhD program is to develop the student's abilities to conceptualize research problems in the area of human nutrition, synthesize ideas and approaches in the research problem, analyze and interpret data, transmit their findings to peers, and expand their knowledge in, and perspective of, the field of human nutrition. Thus, major emphasis is placed on the research project and thesis.

Applicants may enter the PhD program via one of three routes: 1) following completion of an MSc degree; 2) transfer from the University of Toronto MASc program; or 3) direct entry following completion a bachelor's degree.

PhD Program

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 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 (transfer) 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

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - NFS 1304Y *Doctoral Seminars in Nutritional Sciences*
 - a minimum of four half courses (2.0 FCEs)
- The courses will be chosen by each student to provide an appropriate background for their 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.
- The **residence** requirement is two years, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.
- It is expected that students can complete their PhD in a period of four years of full-time study, research, and thesis preparation; however, some students may require longer.

Program Length

4 years full-time; 5 years transfer-from-master's

Time Limit

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

PhD Program (Direct-Entry)

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 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.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - NFS 1304Y *Doctoral Seminars in Nutritional Sciences* (1.0 FCE)
 - a minimum of six half courses (3.0 FCEs)
- The courses will be chosen by each student to provide an appropriate background for their 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.
- The **residence** requirement is three years, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.
- It is expected that students can complete their PhD in a period of five years of full-time study, research, and thesis preparation; however, some students may require longer.

Program Length

5 years

Time Limit

7 years

Nutritional Sciences: Nutritional Sciences MSc, PhD Courses

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	Foundations of Practice I
NFS 1209Y	Foundations of Practice II
NFS 1210H	Foundations of Practice III
NFS 1211H	Community Nutrition
NFS 1212H	Regulation of Food Composition, Health Claims, and Safety
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 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 1226H	Nutrition and Cancer
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. Credit is given when the course is completed.

Occupational Science and Occupational Therapy

Occupational Science and Occupational Therapy: Introduction

Faculty Affiliation

Medicine

Degree Programs

Occupational Therapy

MScOT

Collaborative Specializations

The following collaborative specialization is available to students in the participating degree program as listed below:

- [Women's Health](#)
 - Occupational Therapy, MScOT

Overview

The Department of Occupational Science and Occupational Therapy is committed to providing graduate and continuing education programs that enable occupational therapists to be leaders in research, clinical practice, and the promotion of health and well-being. Core and clinical faculty members provide dynamic, evidence-based, and comprehensive instruction and mentorship. Graduates are innovative professionals focused on enabling occupation and enhancing health and well-being.

Starting in September 2018, the MScOT is offered both at the St. George (downtown Toronto) campus and at the University of Toronto Mississauga (UTM) campus. Applicants will have an opportunity to indicate their preferred campus. Campus preferences will be considered but they are not guaranteed.

Contact and Address

Web: 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

Occupational Science and Occupational Therapy: Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
 Cameron, Jill - BSc, MS, PhD
 Colantonio, Angela - BA, BSc(OT), MHSc, PhD
 Dawson, Deirdre - BSc, MSc, PhD (***Interim Chair and Graduate Chair***)
 Friefeld, Sharon - BSc(OT), MA, PhD
 King, Gillian - BA, MA, PhD
 Kirsh, Bonnie - BSc(OT), MEd, PhD
 Lindsay, Sally - BA, MA, PhD
 Mihailidis, Alex - BASc, MASc, PhD
 Rappolt, Susan - BSc(OT), MSc, PhD
 Reed, Nick - BA, MSc, PhD
 Reid, Denise - BSc(OT), MEd, PhD
 Renwick, Rebecca - DipOT, BA, PhD

Members Emeriti

Friedland, Judith - BA, MA, PhD
 Polatajko-Howell, Helene J. - PhD

Associate Members

Barker, Donna - BSc(OT), MSc
 Cockburn, Lynn - BSc(OT), BCom, MEd, MPH, PhD
 Farrow, Susan - BSc(OT), BA
 Fourt, Anne - BSc(OT), MEd
 Hamdani, Yani - MA
 Hitzig, Sander - PhD
 Ho, Emily - BSc(OT), MEd, PhD
 Hunt, Anne - MSc, PhD
 Langlois, Sylvia - BSc, MSc
 Markoulakis, Roula - MSc, PhD
 Mckee, Patricia - DipOT, BSc(OT), MSc
 Munce, Sarah - BSc, MSc, PhD
 Nalder, Emily - BTh, PhD
 Novak, Alison - PhD
 Reel, Kevin - BSc(OT)
 Rowland, Paula - BS, BS
 Stier, Jill - MA, BMedSc (***Graduate Coordinator***)
 Trentham, Barry - BSc(OT), MES, PhD
 Vasquez, Brandon - BS, MA, PhD
 Wasilewski, Marina B. - BSc, MSc, PhD

Occupational Science and Occupational Therapy: Occupational Therapy MScOT

Master of Science in Occupational Therapy

Program Description

The 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:

- practise 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;
- supervise rehabilitation assistants, OT aides, or other support workers;
- use principles of research-based practice to guide and evaluate service delivery;
- contribute to research that will advance the knowledge base of the discipline;
- assume management roles;
- take leadership roles in the profession;
- take leadership roles in health care and other sectors including social services, education, and labour;
- fill academic-practitioner positions; and
- pursue doctoral studies and careers in academia or clinical research.

The MScOT program is offered as a two-year full-time program. Admissions to the one-year, advanced-standing part-time option have been suspended.

MScOT Program (24-Month 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 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 around October each year, with a deadline near the end of December or early 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, section 4.3 English-Language Proficiency](#) 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.
- 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 (18.5-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

MScOT Program (12-Month, Advanced-Standing Part-Time Option)

Admissions to the advanced-standing option have been suspended.

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.
- A bachelor's degree in occupational therapy from a recognized university with high academic standing and a mid-B average or better in the final year of study.
- Applicants must be registered, or eligible for registration, for independent practice as an occupational therapist in Canada with a provincial regulating body.
- Apply online using the [SGS online application system](#). Applications are accepted approximately in mid-February

each year, with a deadline approximately at the end of March (subject to change).

- 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, section 4.3 English-Language Proficiency](#) 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.
- Visit the [Occupational Therapy website](#) for additional information regarding application document submissions (e.g., reference letters, resumé, personal statement submission).

Program Requirements

- The advanced-standing option is a three-consecutive-session, part-time program of study beginning in September. Students must complete 3.5 full-course equivalents (FCEs): OCT 1111Y, OCT 1122Y⁺, and OCT 1220Y⁰.
- Students complete the advanced-standing option in an online environment with a mandatory one-week, on-campus residency.
- For more information about the application process, tuition, and supervision, etc., please visit the [Occupational Science and Occupational Therapy website](#).

Program Length

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

Time Limit

3 years part-time

⁺ *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.*

Occupational Science and Occupational Therapy: Occupational Therapy MScOT Courses

Required Courses for the 24-Month Full-Time Option

OCT 1100H ⁰	Applied Skills and Technology: Human Factors and Design in Occupational Therapy
------------------------	---

OCT 1111Y	Occupational Science: Foundations for Occupational Therapy
OCT 1122Y ⁺	Research Approaches and Methods in Occupational Therapy
OCT 1131H	Occupational Therapy Practice I
OCT 1132H	Occupational Therapy Practice II
OCT 1141H	Assessment in Occupational Therapy
OCT 1152Y	Musculo-Skeletal Foundations for Occupational Therapy Practice
OCT 1162Y	Mental Health Foundations for Occupational Therapy Practice
OCT 1172Y ⁺	Neurological Foundations for Occupational Therapy Practice
OCT 1183Y	Occupational Therapy Fieldwork I
OCT 1190Y ⁰	Building Practice Through Mentorship
OCT 1193H	Enabling Occupation Across the Life Course
OCT 1220Y ⁰ (1.5 FCEs)	Graduate Research Project
OCT 1233H	Occupational Therapy Practice III
OCT 1236H	Transition to Occupational Therapy Practice
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

Required Courses for the 12-Month, Advanced-Standing Part-Time Option

OCT 1111Y	Occupational Science: Foundations for Occupational Therapy
OCT 1122Y ⁺	Research Approaches and Methods in Occupational Therapy
OCT 1220Y ⁰	Graduate Research Project (1.5 FCEs)

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.*

Pharmaceutical Sciences

Pharmaceutical Sciences: Introduction

Faculty Affiliation

Pharmacy

Degree Programs

Pharmaceutical Sciences

MS and PhD

- Fields:
 - Biomolecular Pharmaceutical Sciences;
 - Clinical, Social, and Administrative Pharmaceutical Sciences

Pharmacy

MScPhm

Collaborative Specializations

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

- [Addiction Studies](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Bioethics](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Biomedical Engineering](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Cardiovascular Sciences](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Pharmaceutical Sciences, MSc, PhD
- Health Care, Technology, and Place (admissions have closed)
 - Pharmaceutical Sciences, PhD
- [Health Services and Policy Research](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Neuroscience](#)
 - Pharmaceutical Sciences, MSc, PhD
- [Toxicology](#)
 - Pharmaceutical Sciences, MSc, PhD

Overview

Pharmaceutical sciences encompasses all aspects of the discovery, development, administration, distribution, and utilization of therapeutic drugs, and the nature, functioning, and dysfunctioning of the biological systems with which drugs interact. As a global leader in pharmaceutical research, the

Leslie Dan Faculty of Pharmacy is home to some of the most prominent and distinguished experts in the area of pharmaceutical sciences. The department is centrally located in the heart of Toronto's Health Sciences Discovery District. Students have the opportunity to conduct their research in collaboration with a wide range of departments at the University of Toronto and nearby world-class teaching hospitals and research institutes to solve some of health science's most pressing problems.

A degree in Pharmaceutical Sciences can lead to a variety of career opportunities. Graduates have found employment in academia, the pharmaceutical industry, government, community or hospital pharmacy, consulting, and other businesses.

The Graduate Department of Pharmaceutical Sciences offers research opportunities and courses in two fields of study:

- Biomolecular Pharmaceutical Sciences: drug receptor interactions, molecular biology, electrophysiology, biochemistry, clinical, adverse drug reactions, drug metabolism; pharmaceutical and medicinal chemistry, pharmaceutical formulations, radiopharmaceutical synthesis, drug discovery, biophysical chemistry, basic pharmacokinetics, and clinical research;
- Clinical, Social, and Administrative Pharmaceutical Sciences: clinical and pharmacy practice, sociology of health, social psychology, health policy, and health economics.

Contact and Address

Web: pharmacy.utoronto.ca/programs/graduate-department-pharmaceutical-sciences

Email: phm.grad@utoronto.ca

Telephone: (416) 978-8896

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

Pharmaceutical Sciences: Graduate Faculty

Full Members

Allen, Christine - BSc, PhD, PhD
Angers, Stephane - BSc, PhD (**Associate Dean, Research**)
Austin, Zubin - BA, BScPhm, MBA, MSt, MEd, PhD
(**Academic Director, Centre for Practice Excellence**)
Bendayan, Reina - DP
Bonin, Robert - PhD
Boon, Heather - PhD
Cadarette, Suzanne - BSc, MSc, PhD (**Graduate Coordinator**)
Chalikian, Tigran - PhD
Crandall, Ian - BSc, MSc, PhD
Cummins, Carolyn - BSc, PhD
Dolovich, Lisa - MSc (**Dean**)
Dupuis, Lee - BSc, BScPhm, MPharm, PhD

Gomes, Tara - BSc, MHSc
 Grootendorst, Paul - BA, MEc, PhD
 Guilcher, Sara - BSc, MSc, MSc(PT), PhD
 Hampson, David - PhD
 Heerklotz, Heiko - PhD
 Henderson, Jeffrey - PhD
 Kelley, Shana - BA, PhD
 Kohler, Jillian - BA, MA, PhD
 Kotra, Lakshmi - BSc, BPhm, PhD, PhD
 Krahn, Murray - BA, MSc, MD
 Lee, Ping - BSChE, PhD
 Macgregor, Robert - BS, PhD (**Director, Graduate Department of Pharmaceutical Sciences**)
 MacKeigan, Linda - BScPhm, PhD
 Pang, Sandy - BSc, PhD
 Papadimitropoulos, Emmanuel - BSc, BSP, MScPhm, PhD
 Pennefather, Peter - BSc, PhD
 Piquette-Miller, Micheline - BScPhm, PhD (**Graduate Coordinator**)
 Reilly, Raymond - BSc, BSc, MSc, PhD (**Director, Centre for Pharmaceutical Oncology**)
 Sproule, Beth - BScPhm, DP
 Taddio, Anna - BScPhm, MScPhm, PhD
 Thompson, Alison - BA, MA, PhD
 Uetrecht, Jack - BSc, MSc, MD, PhD
 Walker, Sandra - BSc, BScPhm, DP
 Weaver, Donald F. - BSc, MD, PhD
 Wells, James - BSc, MSc, PhD
 Wells, Peter - BScPhm, DP
 Wu, Xiao Yu - PhD
 Zheng, Gang - MSc, PhD

Members Emeriti

Bowen, Barry - BScPhm, MScPhm

Associate Members

Ballantyne, Peri - BA, MA, PhD
 Battistella, Marisa - BScPhm, DP
 Chen, Eric - MD
 Crown, Natalie - BScPhm, DP, DP
 De Angelis, Carlo - DP
 Facey, Marcia - PhD
 Kertland, Heather - BScPhm
 Lexchin, Joel - BSc, MSc, MD
 McCarthy, Lisa - BScPhm, MSc, DP
 McMurtry, Meghan - PhD
 Paradis, Elise - BA, MA, MA, PhD, PhD
 Perlis, Nathan - BA, MS, MD, FRSC
 Poda, Gennadiy - MSc, PhD
 Routy, Jean-Pierre - MD
 Sun, Hong-Shuo - MSc, DrMed, DPhil
 Tadrous, Mina - MS, DP, PhD

Pharmaceutical Sciences: Pharmaceutical Sciences MSc

Master of Science

Program Description

The Graduate Department of Pharmaceutical Sciences at the Leslie Dan Faculty of Pharmacy offers students in the physical, biological, clinical, and social sciences a challenging and rewarding research-intensive program leading to the MSc degree. The result is an educational program that encourages multidisciplinary approaches to problems and collaboration between students and faculty members. Graduate students participating in this process are immersed in a challenging program that equips them with new ways of thinking and provides them with multiple tools to approach problems.

The MSc program can be taken on a full-time or part-time basis. All admission and program requirements are the same for the full-time and part-time options. A limited number of students will be admitted to the part-time 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 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, 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) 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.
 - International English Language Testing System (IELTS): a score of 7.0 (Academic) with at least 6.5 in each component.
 - The Certificate of Proficiency in English (COPE): a score of 76, with at least 22 in each component and 32 in the writing component.
 - Academic Preparation Course: a final grade of B in Level 60.
- 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).

Program Requirements

- 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 director.
- **Coursework.** Students must complete a minimum of **1.0 full-course equivalent (FCE)**.
- Yearly advisory committee meetings.
- One **oral or poster presentation** given to all faculty and graduate students at Graduate Research in Progress (GRIP).
- Annual attendance at GRIP.
- Regular attendance at a minimum of **eight Pharmaceutical Sciences departmental seminars** as well as student group seminars for two years (or less if all other program requirements are completed).
- An **oral presentation** of the student's own research work is given in the student seminar series 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 an area of pharmaceutical sciences.

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.*

Pharmaceutical Sciences: Pharmaceutical Sciences PhD

Doctor of Philosophy

Program Description

The Graduate Department of Pharmaceutical Sciences offers a challenging and rewarding research-intensive program leading to the PhD degree. Students in the program are immersed in pharmaceutical sciences, working and collaborating with world-renowned researchers while gaining profound depth and experience in their area of study.

Applicants may enter the PhD program via one of three routes: 1) ing completion of an appropriate master's degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of an appropriate bachelor's degree.

PhD 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 Pharmaceutical Sciences' additional admission requirements stated below.
- Appropriate master's degree from a recognized university with a minimum overall B+ average.
- 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, 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) 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.
 - International English Language Testing System (IELTS): a score of 7.0 (Academic) with at least 6.5 in each component.
 - The Certificate of Proficiency in English (COPE): a score of 76, with at least 22 in each component and 32 in the writing component.
 - Academic Preparation Course: a final grade of B in Level 60.
- 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.

Program Requirements

- 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, as well as with the approval of the graduate chair.
- **Coursework.** Students normally complete **2.0 full-course equivalents (FCEs)** within the first three years of registration.
- 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 or poster presentation.
- Annual attendance at GRIP.
- Regular attendance at a minimum of **eight Pharmaceutical Sciences departmental seminars** as well as student group seminars in each academic year for four years (or less if all other program requirements are completed).
- In the student seminar series, students must give an **oral research presentation** of approximately 20 to 30 minutes every year after the first 12 months of registration in the program.
- 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 must be on campus and participate full-time (including Summer) until all program requirements are completed. Simultaneous registration in another full-time degree program is not allowed.

Program Length

4 years

Time Limit

6 years

PhD Program (Transfer)

Transfer Requirements

- 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 full-course equivalent (FCE) with an average grade of A- during Year 1 of the master's program, and must have financial support.
- A transfer from the MSc program to the PhD program occurs normally within 15 to 18 months of the student's first registration in the MSc program.

Program Requirements

- **Coursework.** Students must complete a total of **3.0 full-course equivalents (FCEs)**.
- Successful completion of the **MSc to PhD transfer examination**.
- 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.
- Yearly advisory committee meetings.
- **Research presentation(s)** to all faculty and graduate students at **Graduate Research in Progress (GRIP)**. Students must complete two oral or poster presentations, one of which may be a peer-reviewed conference.
- Annual attendance at GRIP.

- Regular attendance at a minimum of **eight Pharmaceutical Sciences departmental seminars** as well as student group seminars in each academic year for four years (or less if all other program requirements are completed).
- In the student seminar series, students must give an **oral research presentation** of approximately 20 to 30 minutes every year.
- 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 must be on campus and participate full-time (including Summer) until all program requirements are completed. Simultaneous registration in another full-time degree program is not allowed.

Program Length

5 years

Time Limit

7 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

- 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.
- Under exceptional circumstances, students may be admitted directly to the PhD program with an appropriate bachelor's degree from a recognized university with a minimum A- (80%) average, or its equivalent, in senior-level courses.
- 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, 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) 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.
 - International English Language Testing System (IELTS): a score of 7.0 (Academic) with at least 6.5 in each component.
 - The Certificate of Proficiency in English (COPE): a score of 76, with at least 22 in each component and 32 in the writing component.
 - [Academic Preparation Course](#): a final grade of B in Level 60.
- 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.

Program Requirements

- 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, as well as with the approval of the graduate chair.
- **Coursework.** Students must complete **3.0 full-course equivalents (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 must complete two oral or poster presentations, one of which may be a peer-reviewed conference.
- Annual attendance at GRIP.
- Regular attendance at a minimum of **eight Pharmaceutical Sciences departmental seminars** as well as student group seminars in each academic year for four years (or less if all other program requirements are completed).
- In the student seminar series, students must give an **oral research presentation** of approximately 20 to 30 minutes every year after the first 12 months of registration in the program.
- 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 must be on campus and participate full-time (including Summer) until all program requirements are completed. Simultaneous registration in another full-time degree program is not allowed.

Program Length

5 years

Time Limit

7 years

PhD Program (Flexible-Time)

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. The program requirements for the flexible-time PhD option are identical to those for the full-time PhD 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 Pharmaceutical Sciences' additional admission requirements stated below.
- Appropriate master's degree from a recognized university with a minimum overall B+ average.
- 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.
- 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.

Program Requirements

- 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.
- **Coursework.** Students normally complete **2.0 full-course equivalents (FCEs)**.
- Yearly advisory committee meetings.
- 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.
- **Research presentation(s)** to all faculty and graduate students at **Graduate Research in Progress (GRIP)**. Students must complete one oral or poster presentation.
- Annual attendance at GRIP.

- Regular attendance at a minimum of **eight Pharmaceutical Sciences departmental seminars** as well as student group seminars in each academic year for four years. 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 Director.
- In the student seminar series, students must give an **oral research presentation** of approximately 20 to 30 minutes every year after the first 12 months of registration in the program.
- 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 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 and thereafter, students may register part-time.

Program Length

8 years

Time Limit

8 years

Pharmaceutical Sciences: Pharmaceutical Sciences MSc, PhD Courses

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 1128H	Introduction to Models and Methods of Research in Clinical, Social, and Administrative Pharmacy
PHM 1130H	Biomolecular Interactions and Thermodynamics I
PHM 1133H	Special Topics in Pharmaceutical Sciences Reading Course
PHM 1135H	Nanomedicines in Oncology
PHM 1136H	Introduction to Biostatistics
PHM 1137H	Introduction to Qualitative Research Methods in the Health Sciences
PHM 1138H	Electronics for Pharmaceutics Applications
PHM 1139H	Diagnosing Corruption in the Health Sector and Anti-Corruption Policies and Tools
PHM 1140H	Principles of Synthetic Biology

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 Addiction Studies
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.*

Pharmaceutical Sciences: Pharmacy MScPhm

Master of Science in Pharmacy

Program Description

The Master of Science in Pharmacy (MScPhm) program is designed to train future academic clinical pharmacist leaders. As members of patient care teams and as pharmacy practice researchers, graduates of the MScPhm program will influence the provision of pharmaceutical care at the patient and population level. As teachers, they will shape the development of current and future pharmacists.

Minimum Admission Requirements

- 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.
- Applicants must have status as a pharmacist, based on one of the following:
 - a bachelor's degree in Pharmacy or a PharmD degree, or equivalent, from a Canadian pharmacy program accredited by the Canadian Council for Accreditation of Pharmacy Programs (CCAPP) or an American pharmacy program accredited by the Accreditation Council for Pharmacy Education (ACPE); or
 - a license to practise pharmacy (any Canadian jurisdiction); or
 - a bachelor's degree in Pharmacy or a PharmD degree, or equivalent, from any international pharmacy school **and** successful completion of the Pharmacy Examining Board of Canada (PEBC) Evaluating Exam.
- Applicants with pharmacy practice experience, including completion of a Year 1 Pharmacy residency program, are preferred. Applicants must also have an equivalent of a University of Toronto B+ (77 to 79%) in the last two years of study and have identified a primary graduate supervisor for the program.

Program Requirements

- Each student's program will be tailored to suit the student's background and interests and will be planned in

consultation with the supervisor and graduate advisory committee, with the approval of the graduate chair.

- Students must complete a minimum of **9.0 full-course equivalents (FCEs)**, including a clinical practicum (3.0 FCEs) and a research project (3.0 FCEs).
- Graduate advisory committee meetings will be held at minimum once each year.
- One **poster presentation** given to all faculty and graduate students at Graduate Research in Progress (GRIP). Students will attend GRIP yearly.
- Regular attendance at the graduate departmental and student group seminars for two years.
- An **oral presentation** of the completed research work will be submitted and assessed 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

****Applicants may apply to the Fall session only.**

Pharmaceutical Sciences: Pharmacy MScPhm Courses

Required Foundational Courses

PHM 1141H	Introduction to Education Theory, Practice, and Scholarship
PHM 1142H	Methods for Patient-Focused and Pharmacy Practice Research
PHM 1143H	Advanced Pharmacy Practice Leadership

Practica and Research Project

PHM 8000Y ⁰	MScPhm Clinical Practicum I (Credit/No Credit. 1.5 FCEs.)
PHM 8100Y ⁰	MScPhm Clinical Practicum II (Credit/No Credit. 1.5 FCEs. Prerequisite: PHM 8000Y, which may be taken concurrently.)
PHM 9000Y ⁰	MScPhm Research Practicum (Credit/No Credit. 3.0 FCEs. Prerequisite: PHM 1142H, which may be taken concurrently.)

Elective Courses

PHM 1107H	Advanced Pharmacokinetics Course I
PHM 1115H	Special Topics in Radiopharmaceuticals II
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 1133H	Special Topics in Pharmaceutical Sciences Reading Course
PHM 1135H	Nanomedicines in Oncology
PHM 1136H	Introduction to Biostatistics
PHM 1137H	Introduction to Qualitative Research Methods in the Health Sciences
PHM 1138H	Electronics for Pharmaceutics Applications
AGE 2000H	Principles of Aging
HAD 5746H	Applied Health Econometrics II
JNP 1014Y	Interdisciplinary Toxicology
JRH 1000H	Introduction to Pharmacoepidemiology
JRH 5124H	Public Health Ethics
PAS 3700H	Multidisciplinary Aspects of Addiction Studies
PCL 1004Y	Clinical Pharmacology

Pharmacology and Toxicology

Pharmacology and Toxicology: Introduction

Faculty Affiliation

Medicine

Degree Programs

Pharmacology

MSc

- Field:
 - Applied Clinical Pharmacology

PhD

Combined Degree Programs

- [STG, MD / PhD](#)

Collaborative Specializations

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

- [Addiction Studies](#)
 - Pharmacology, MSc, PhD
- [Cardiovascular Sciences](#)
 - Pharmacology, MSc, PhD
- [Human Development](#) (admissions have been suspended)
 - Pharmacology, PhD
- [Musculoskeletal Sciences](#)
 - Pharmacology, MSc, PhD
- [Neuroscience](#)
 - Pharmacology, MSc, PhD
- [Resuscitation Sciences](#)
 - Pharmacology, MSc, PhD
- [Toxicology](#)
 - Pharmacology, MSc, PhD
- [Women's Health](#)
 - Pharmacology, MSc, PhD

Overview

Faculty in the Department of Pharmacology and Toxicology conduct research in the following areas:

- biochemical and molecular pharmacology
- cardiovascular pharmacology
- clinical pharmacology
- drug addiction
- drug metabolism, distribution, and pharmacokinetics
- endocrine pharmacology
- immunopharmacology
- neuropharmacology
- pharmacogenetics

- psychopharmacology
- receptor pharmacology
- second messengers and signal transduction
- toxicology

Contact and Address

Web: www.pharmtox.utoronto.ca
 Email: pharmtox.dept@utoronto.ca
 Telephone: (416) 978-3851

Department of Pharmacology and Toxicology
 University of Toronto
 Medical Sciences Building, 1 King's College Circle, Room 4207
 Toronto, Ontario M5S 1A8
 Canada

Pharmacology and Toxicology: Graduate Faculty

Full Members

Al-awar, Rima - PhD
 Andreadza, Ana Cristina - BPhM, MSc, PhD, PhD
 Beaulieu, Martin - PhD
 Brands, Bruna - PhD
 Cherney, David - MD, PhD
 Daskalakis, Jeff - MD
 Dorian, Paul - MSc, MDCH
 Eubanks, James - BSc, AA, PhD
 George Bahl, Susan - MD
 Goldstein, Benjamin - MD
 Grant, Denis - BSc, PhD
 Hampson, David - PhD
 Ito, Shinya - MD, BM
 Kish, Stephen John - BSc, MSc, PhD
 Kotsopoulos, Joanne - BSc, MSc, PhD
 Lanctot, Krista - MSc, PhD
 Laposa, Rebecca - PhD
 Le Foll, Bernard - MSc, DrMed, PhD
 Le, Dzong - PhD
 Matthews, Jason - PhD
 McIntyre, Roger - MD
 McPherson, J. Peter - MSc, PhD (**Coordinator of Graduate Studies**)
 Meyer, Jeffrey - MD
 Mitchell, Jane - BSc, PhD
 Mizrahi, Romina - MD, PhD
 Mueller, Daniel - MD
 Nobrega, Jose - PhD
 Pang, Sandy - BSc, PhD
 Parker, John - BA, MD
 Petronis, Arturas - MD
 Piquette-Miller, Micheline - BScPhM, PhD
 Pollock, Bruce - BSc, MD, PhD
 Ramsey, Amy - PhD
 Riddick, David - BSc, PhD
 Ross, Ruth Alexandra - PhD (**Chair and Graduate Chair**)
 Roy, Peter John - BSc, PhD
 Rusjan, Pablo - PhD
 Salahpour, Ali - PhD
 Salmena, Leonardo - PhD
 Schapira, Matthieu - MChem, PhD
 Schimmer, Bernard - BS, PhD

Sibille, Etienne - BSc, PhD
 Snead III, Carter - BS, MD, MD
 Swardfager, Walter - PhD
 Tyndale, Rachel - PhD
 Uetrecht, Jack - BSc, MSc, MD, PhD
 Verma, Subodh - MSc, MD, PhD
 Wells, James - BSc, MSc, PhD
 Wells, Peter - BScPhm, DP
 Wong, Albert - MD, PhD
 Woo, Minna - MD
 Young, Trevor - MSc, MD, PhD
 Zawertailo, Laurie Anne - PhD

Members Emeriti

Burnham, Willets - PhD
 Endrenyi, Laszlo - PhD
 Kalant, Harold - BSc, MD, PhD
 Okey, Allan - BSc, MSc, PhD
 Pace-Asciak, Cecil - PhD
 Seeman, Philip - BSc, MSc, MDCH, PhD
 Warsh, Jerry - MD

Associate Members

Arnot, Michelle - PhD
 Banasr, Mounira - PhD
 Di Ciano, Patricia - PhD
 Hamadanizadeh, Anita - PhD
 McIntyre, Roger - MD
 Mittmann, Nicole - PhD
 Sun, Hong-Shuo - MSc, DrMed, DPhil
 Vedadi, Masoud - PhD
 Woodland, Cindy - PhD
 Zack, Martin - BSc, MASc, PhD

Pharmacology and Toxicology: Pharmacology MSc (Thesis-Based Option)

Master of Science

Program Description

In the MSc program, students are expected to undertake self-directed study and demonstrate proficiency in pharmacological principles throughout the course of the program. They are able to engage in one of two formats of study: 1) thesis-based study or 2) course-based study in the field of Applied Clinical Pharmacology.

In the thesis-based study, students are expected to think critically about scientific issues and develop a knowledge base in pharmacology while formulating hypotheses in a specific area of pharmacological research. They will test their hypotheses through active research and present their investigations in a thesis.

In the course-based Applied Clinical Pharmacology field, students will engage in research and hands-on training in academic, commercial, health care, and/or government settings. Courses will feature a breadth of fundamental and applied pharmacology topics with emphasis on translational research.

The MSc program can be taken on a full-time or part-time basis.

MSc Program (Thesis-Based Option)

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

- **Coursework.** Students must complete PCL 1002Y *Graduate Pharmacology* (1.0 full-course equivalent [FCE]). The academic program may require additional coursework.
- Each student will present a **departmental seminar** after approximately one year in the program.
- Each student will participate in a research program and present the results of the investigation as a **written thesis**. The thesis will be evaluated and defended to the satisfaction of a thesis examination committee.
- MSc students in pharmacology who intend to continue their studies in the PhD program may choose to be evaluated during their MSc **oral defence**.
- 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.

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

Pharmacology and Toxicology: Pharmacology MSc; Field: Applied Clinical Pharmacology

MSc Program: Applied Clinical Pharmacology Field (Course-Based Option)

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 and biochemistry, or applied sciences sufficient to form a foundation for their work in pharmacology.

Program Requirements

Coursework. Students must complete **8.0 full-course equivalents (FCEs)**. The curriculum is designed in an integrated fashion such that each subsequent course reinforces and builds upon prior knowledge. Students are expected to complete the required courses in Year 1. Elective courses may be taken in either year with practicum opportunities offered following successful completion of the required courses.

- **Year 1 required courses (6.0 FCEs);** these courses are spread throughout the first 12 months of the program:
 - PCL 1001Y *Systems Pharmacology*
 - PCL 1002Y *Graduate Pharmacology*
 - PCL 1004Y *Clinical Pharmacology*
 - PCL 1100H⁰ *Applied Skills in Clinical Pharmacology*
 - PCL 1101H⁰ *Technology, Techniques, and Translation in Pharmacology and Toxicology*
 - PCL 1402H *Pharmacology and Toxicology in Drug Development*
 - PCL 1491H *Clinical Pharmacology: Principles in Practice*
 - PCL 2200Y⁰ *Major Research Project*.

Plus

- **Elective courses (2.0 FCEs).** Elective coursework is selected through consultation with the program director with the intention to allow individual students to tailor their degree towards their interests and career goals. Popular elective courses include:
 - PCL 1300H *Selected Topics in Clinical Pharmacology* (Credit/No Credit)
 - PCL 2100Y⁰ *Practicum in Clinical Pharmacology* (Credit/No Credit; 2.0 FCEs)
 - PCL 2101Y⁰ *Practicum in Clinical Pharmacology I* (Credit/No Credit)
 - PCL 2102Y⁰ *Practicum in Clinical Pharmacology II* (Credit/No Credit)
 - PCL 2201Y⁰ *Research Project Extended Study* (Credit/No Credit)
 - APS 1001H *Project Management*
 - CHL 5201H *Biostatistics I*
 - JNP 1014Y *Interdisciplinary Toxicology*

- JPM 1005Y *Behavioural Pharmacology*
- RSM 2017H *Pharmaceutical Strategy*.

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

⁰ *Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.*

MSc Program: Applied Clinical Pharmacology Field (Course-Based, Advanced-Standing Option)

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 and biochemistry, or applied sciences sufficient to form a foundation for their work in pharmacology.
- At the discretion of the program director, applicants who demonstrate pharmacology knowledge that significantly overlaps with the Applied Clinical Pharmacology curriculum **may be considered** for advanced standing with either:
 - a bachelor's degree specializing in pharmacology or biomedical toxicology **or**
 - MD degree (undergraduate medical education) with coursework in pharmacology.

Program Requirements

Coursework. Students must complete **at least 4.0 full-course equivalents (FCEs)** as follows:

- PCL 1002Y *Graduate Pharmacology* (1.0 FCE)
- PCL 1004Y *Clinical Pharmacology* (1.0 FCE)
- PCL 1100H⁰ *Applied Skills in Clinical Pharmacology* (0.5 FCE)
- PCL 2200Y⁰ *Major Research Project* (1.0 FCE), starting in the Fall of Year 1.
- At least one half-course elective (0.5 FCE) chosen from the following list, and upon recommendation and approval by the program director:
 - PCL 1101H⁰ *Technology, Techniques, and Translation in Pharmacology and Toxicology*
 - PCL 1300H *Selected Topics in Clinical Pharmacology and Toxicology* (Credit/No Credit)
 - CHL 5201H *Biostatistics I* (exclusion: LMP 1407H)
 - JNP 1014Y *Interdisciplinary Toxicology*
 - JPM 1005Y *Behavioural Pharmacology*

- Note: students participating in this advanced-standing option are not eligible to enrol in a practicum course.

Program Length

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

Time Limit

3 years

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

Pharmacology and Toxicology: Pharmacology PhD

Doctor of Philosophy

Program Description

The objective of the PhD degree is to have students possess a comprehensive understanding of the general area of pharmacology, in addition to specific expertise in their particular area of interest. They build on their knowledge of pharmacology so that they are able to think critically about specific areas in pharmacology. They should be able to formulate and design, as well as carry out and interpret investigations. Their findings should be publishable. They should show capacity for continuing significant contributions in pharmacology and for conducting independent research.

Applicants may enter the PhD program via one of three routes: 1) ing completion of an appropriate master's degree; 2) transfer from the University of Toronto MSc program; or 3) direct entry following completion of an appropriate bachelor's degree.

PhD Program

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.
- 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.

- Well-qualified students with excellent research potential holding an appropriate bachelor's degree from a recognized university may be considered for direct entry 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.
- 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

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - PCL 1002Y *Graduate Pharmacology* (primary subject)
 - PCL 1003Y⁰ *Seminars in Pharmacology* (Credit/No Credit)
 - 1.0 additional FCE (secondary subject)
 - Any other courses advised by the Graduate Education Committee. The student's advisory committee should help the student determine the secondary 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 **written thesis**. The thesis must be **orally defended** to the satisfaction of a thesis examination committee.
- 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.

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

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.

Pharmacology and Toxicology: Pharmacology MSc, PhD Courses

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 1100H ⁰	Applied Skills in Clinical Pharmacology
PCL 1101H ⁰	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)
PCL 1402H	Pharmacology and Toxicology in Drug Development
PCL 1491H	Clinical Pharmacology: Principles in Practice (co-requisite: PCL 1004Y or prior pharmacokinetics course)
PCL 2100Y ⁰ (2.0 FCEs)	Practicum in Clinical Pharmacology (Credit/No Credit) (prerequisite: PCL 1100H ⁰)
PCL 2101Y ⁰	Practicum in Clinical Pharmacology I (Credit/No Credit) (prerequisite: PCL 1100H ⁰)
PCL 2102Y ⁰	Practicum in Clinical Pharmacology II (Credit/No Credit) (prerequisite: PCL 1100H ⁰)
PCL 2200Y ⁰	Major Research Project (prerequisite or co-requisite: PCL 1100H ⁰)
PCL 2201Y ⁰	Research Project Extended Study (Credit/No Credit) (prerequisite: PCL 2200Y)
CHL 5201H	Biostatistics I (exclusion: LMP 1407H)
JFK 1120H	Selected Topics in Drug Development I
JFK 1121H	Selected Topics in Drug Development II
JFK 1122H	Drug Transport Across Biological Membranes
JNP 1014Y	Interdisciplinary Toxicology
JNP 1016H	Graduate Seminar in Toxicology
JNP 1017H ⁺	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H ⁺	Molecular and Biochemical Basis of Toxicology
JNR 1444Y	Fundamentals of Neuroscience: Cellular and Molecular
JPM 1005Y	Behavioural Pharmacology
JYG 1555H	Advanced Topics: Cellular and Molecular Neurobiology
LMP 1407H	Introductory Biostatistics and Clinical Investigation (exclusion: CHL 5201H)

⁰ Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

Philosophy

Philosophy: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Philosophy

MA

- Concentration: Philosophy of Science (effective September 2021)

PhD

Combined Degree Programs

- [STG, Law, Juris Doctor / Philosophy, PhD](#)

Collaborative Specializations

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

- [Ancient and Medieval Philosophy](#)
 - Philosophy, PhD
- [Bioethics](#)
 - Philosophy, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Philosophy, PhD
- [Jewish Studies](#)
 - Philosophy, MA, PhD
- [Sexual Diversity Studies](#)
 - Philosophy, MA, PhD
- [Women and Gender Studies](#)
 - Philosophy, MA, PhD

Overview

Philosophy has been taught at the University of Toronto since 1843. Much has changed in that time, but the department remains Canada's pre-eminent philosophy department. It is an international leader in the history of philosophy — especially ancient and medieval philosophy — as well as ethics, philosophy of science, and philosophy of mind. In all of these areas, department members take contemporary philosophical problems and their historical antecedents to illuminate one another.

The department's most distinctive strength is its broad coverage of the history of philosophy. While peer departments usually have one or two experts in a few historical periods, U of T has specialists in every area of the history of Western philosophy, as well as in aspects of the history of non-Western

philosophy. This historical focus engages with other areas of strength: ethics, philosophy of science, and philosophy of mind.

Many U of T faculty working in these areas also study their history; they use that study to inform their contributions to contemporary debates. At the same time, these historians of philosophy benefit from and contribute to ground-breaking work in systematic philosophy. This integration of historical and systematic philosophy sets this department apart from other top philosophy departments where the history of philosophy is often segregated from the rest of the discipline.

Contact and Address

Web: philosophy.utoronto.ca

Email: graduate.phil@utoronto.ca

Telephone: (416) 978-3312

Fax: (416) 978-8703

Department of Philosophy
University of Toronto
Jackman Humanities Building (JHB)
Room 410, 170 St. George Street
Toronto, Ontario M5R 2M8
Canada

Philosophy: Graduate Faculty

Full Members

Ainslie, Donald - BSc, MA, PhD
Allen, Derek - BA, BPhil, MA, DPhil
Allen, James - BA, PhD
Barney, Rachel - BA, PhD
Black, Deborah - BA, MA, PhD
Brown, James - BA, MA, PhD, FRSC
Caie, Michael - PhD
Charlow, Nathan - BA, MA, PhD
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
Franks, Paul - AB, MA, PhD
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
Huber, Franz - MA, PhD
Hubner, Karolina - BA, MA, 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
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
 Novak, David - AB, PhD
 Pickavé, Martin - MA, PhD (**Chair and Graduate Chair**)
 Raffman, Diana - BA, PhD, FRSC
 Rattan, Gurpreet - BSc, AM, MPH, PhD (**Graduate Director**)
 Ripstein, Arthur S. - BA, MA, LL.M., PhD
 Rosenthal, Michael - PhD
 Rozemond, Marleen - BA, PhD
 Seager, William Edward - BA, MA, PhD
 Sedivy, Sonia - BA, PhD
 Sepielli, Andrew - AB, JD, PhD
 Smith, Brian Cantwell - BS, MS, PhD
 Stang, Nicholas - AB, PhD
 Tenenbaum, Sergio - MA, PhD
 Thompson, Paul - BA, MA, PhD
 Walsh, Denis - BA, BSc, MPH, PhD, PhD
 Weisberg, Jonathan - BMath, BPhil, PhD
 Wilson, Jessica Marie - BA, PhD
 Yi, Byeong-Uk - BA, MA, MA, PhD

Members Emeriti

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

Barnett, David - BA, PhD
 de Kenessey, Brendan - PhD
 Gelber, Jessica - PhD
 Goetschel, Willi - PhD
 Miller, Michael - AB, AM, PhD
 Morgan, Michael - BA, BA, MA, PhD, PhD
 Pfeiffer, Christian Tobias Georg - MPH, PhD
 Swarup, Shruta - BA, MA, PhD
 Ware, Owen - BA, PhD

Philosophy: Philosophy MA

Master of Arts

Program Description

The MA may be taken on a full-time or part-time basis. Applicants should consult the [department's web page](#) for complete details on graduate programs, course offerings, short academic profiles of graduate faculty, and application procedures.

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 must 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.

- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not 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.

Program Requirements

- **Coursework.** Students must successfully complete **3.5 full-course equivalents (FCEs)** in philosophy as follows:
 - at least 1.0 FCE in the history of philosophy
 - at least 1.0 FCE in the problems of philosophy
 - 1.0 FCE designated courses only for MA students. One 0.5 FCE in the broad area of ethics/politics and the other 0.5 FCE in the broad area of metaphysics and epistemology. Either could be historical. The timing of the course requirement is:
 - 0.5 FCE taken in the first session
 - 0.5 FCE taken in the second session
 - PHL 3000H *MA Professional Development Workshop* (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.

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

Concentration: Philosophy of Science

This concentration will start in September 2021.

The Philosophy of Science concentration will provide students with a background in general philosophy of science and with specific topics in philosophy of science. Students will be prepared for academic work at the PhD level in philosophy and for non-academic career tracks that require strong critical thinking skills, as well as an understanding of science and its role in knowledge and society.

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 must have a strong interest in:
 - philosophy (evidenced in a strong writing sample, personal statement, and letters of reference) and
 - a strong academic background in either philosophy or, typically, a subject in the natural and social sciences, with minimum average grades of A. .
- Applicants whose primary language is not English and who graduated from a university where the language of instruction and examination was not 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.

Program Requirements

- **Coursework.** Students must successfully complete **3.5 full-course equivalents (FCEs)** including:
 - PHL XXXXH [course code to be determined] *Advanced Introduction to Philosophy of Science* (0.5 FCE)
 - 1.5 FCE in graduate seminars in philosophy of science or cognate areas of philosophy such as logic, philosophy of language, epistemology, metaphysics, or philosophy of mind
 - 1.0 FCE in the history of science from the following courses: HPS 2000H, HPS 2001H, HPS 2003H, HPS 2004H, HPS 2007H, HPS 2008H, HPS 2009H, HPS 4101H, HPS 4105H
 - PHL 3000H *MA Professional Development Workshop* (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.

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

Philosophy: Philosophy PhD

Doctor of Philosophy

Program Description

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.

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.

Applicants should consult the [department's web page](#) for complete details on graduate programs, course offerings, short academic profiles of graduate faculty, and application procedures.

PhD Program

Minimum Admission Requirements

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

Program Requirements

- **Course Requirements**
 - Students must complete a minimum of 3.0 FCEs in philosophy, with a minimum A– average by the end of Year 1 including:
 - At least 1.0 FCE which must comprise history of philosophy courses.

- At least 1.0 FCE which must comprise problems of philosophy courses.
- The proseminar in philosophy (PHL 1111H) worth 0.5 FCE during the Fall session of Year 1.
- 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.
- **Revision Paper Requirement.** To be satisfied either sometime during coursework or in the summer immediately following coursework. Students will designate a particular paper typically written during coursework as their revision paper and will solicit supervision on the revision of the paper from a faculty member. Students will receive verbal and written feedback on their paper from their faculty supervisor and will revise their paper in light of this feedback. A second round of feedback and revision may be sought by the student or the faculty supervisor, after which time the student will again revise and submit. Students should plan to complete the requirement over one or two months depending on whether one or two rounds of revision are undertaken.
- **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 Year 2.
- **Dissertation Prospectus Requirement.** To be satisfied at the September meeting of the student and their dissertation committee. The prospectus can take many forms and could, for example, proceed by indicating chapters, problems, and literature, and/or theses that will organize, be discussed, or

be argued for in the dissertation. Committees will then give feedback on the overall plan. The length of the prospectus will vary from committee to committee but as a rough guideline, the prospectus may comprise a document of three to five pages.

- **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).
 - 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 Year 1 of registration, students should have completed all the 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.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

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

Program Requirements

• Course Requirements

- Students must take a minimum of 6.0 FCEs in philosophy, with an average grade of at least an A, including:
 - At least 2.0 FCEs which must comprise history of philosophy courses.
 - At least 2.0 FCEs which must comprise problems of philosophy courses.
 - The proseminar in philosophy (PHL 1111H) worth 0.5 FCE during the Fall session of Year 1.
 - 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.
- To remain in good standing, students must complete 3.0 FCEs with an A– average by the end of Year 1, and 6.0 FCEs with an A– average by the end of Year 2.
- **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.
- **Revision Paper Requirement.** To be satisfied either sometime during coursework or in the summer immediately following coursework. Students will designate a particular paper typically written during coursework as their revision paper and will solicit supervision on the revision of the paper from a faculty member. Students will receive verbal and written feedback on their paper from their faculty supervisor and will revise their paper in light of this feedback. A second round of feedback and revision may be sought by the student or the faculty supervisor, after which time the student will again revise and submit. Students should plan to complete the requirement over one or two

months depending on whether one or two rounds of revision are undertaken.

- **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 Year 3.
- **Dissertation Prospectus Requirement.** To be satisfied at the September meeting of the student and her dissertation committee. The prospectus can take many forms and could, for example, proceed by indicating chapters, problems, and literature, and/or theses that will organize, be discussed, or be argued for in the dissertation. Committees will then give feedback on the overall plan. The length of the prospectus will vary from committee to committee but as a rough guideline, the prospectus may comprise a document of three to five pages.
- **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).
 - 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 Year 2 of registration, students 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.

Program Length

5 years

Time Limit

7 years

Philosophy: Philosophy MA, PhD Courses

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 offered by other departments that may be taken for philosophy credit.

Required Courses

PHL 1111H	PhD Proseminar
PHL 2222H	MA Proseminar
PHL 3000H	MA Professional Development Workshop

Concentration: Philosophy of Science (effective September 2021)

PHL XXXXH	Advanced Introduction to Philosophy of Science [course code to be determined]
-----------	--

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	Confucianism
PHL 2016H	Taoism: Philosophy and Religion
PHL 2018H	South Asian Philosophy
PHL 2019H	Topics in South Asian Philosophy

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 2051H	The Rationalists
PHL 2055H	The Empiricists
PHL 2057H	Seminar in Seventeenth-and Eighteenth-Century Philosophy
PHL 2063H	Kant's Ethics

Nineteenth- and Twentieth-Century Philosophy

PHL 2078H	Kierkegaard
PHL 2079H	Marxist Philosophy
PHL 2084H	Seminar in Nineteenth-Century Continental Philosophy
PHL 2085H	Husserl
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

History and Philosophy of Science and Technology

For MA students in the Philosophy of Science concentration (effective September 2021).

HPS 2000H	History of Mathematics
HPS 2001H	History of Physics
HPS 2003H	History of Biology
HPS 2004H	History of Medicine
HPS 2007H	History of Astronomy
HPS 2008H	History of Psychology
HPS 2009H	History and Philosophy of the Social Sciences
HPS 4101H	Topics in the History of Physics
HPS 4105H	Topics in the History of the Social and Behavioural Sciences

Problems of Philosophy

Metaphysics and Epistemology

PHL 2101H	Seminar in Metaphysics
PHL 2105H	Topics in Metaphysics
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 2175H	Philosophy of Perception
PHL 2181H	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

PHL 2140H	Topics in Feminist Philosophy
-----------	-------------------------------

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 3101H	Intensive Special Course
PHL 4900H	Research Seminar

Physical and Environmental Sciences

Physical and Environmental Sciences: Introduction

Faculty Affiliation

University of Toronto Scarborough (UTSC)

Degree Programs

Environmental Science

MEnvSc

- Fields:
 - Climate Change Impacts and Adaptation;
 - Conservation and Biodiversity;
 - Terrestrial and Aquatic Systems

PhD

- Concentrations:
 - Climate Change and the Environment;
 - Contaminant Flux;
 - Environmental Science in Transitional Economies;
 - Great Lakes Ecosystems;
 - Remediation and Restoration of Degraded Environmental Systems;
 - Urban Geoscience

Combined Degree Programs

- [UTSC, Conservation and Biodiversity \(Specialist\), HBSc / MEnvSc](#)
- [UTSC, Environmental Biology \(Specialist\), HBSc / MEnvSc](#)
- [UTSC, Environmental Biology \(Specialist Co-op\), HBSc / MEnvSc](#)
- [UTSC, Environmental Chemistry \(Specialist\), HBSc / MEnvSc](#)
- [UTSC, Environmental Chemistry \(Specialist Co-op\), HBSc / MEnvSc](#)
- [UTSC, Environmental Geoscience \(Specialist\), HBSc / MEnvSc](#)
- [UTSC, Environmental Geoscience \(Specialist Co-op\), HBSc / MEnvSc](#)
- [UTSC, Environmental Physics \(Specialist\), HBSc / MEnvSc](#)
- [UTSC, Environmental Physics \(Specialist Co-op\), HBSc / MEnvSc](#)
- [UTSC, Integrative Biology \(Specialist\), HBSc / MEnvSc](#)

Collaborative Specializations

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

- [Development Policy and Power](#)
 - Environmental Science, MEnvSc
- [Environment and Health](#)
 - Environmental Science, MEnvSc, PhD
- [Food Studies](#)
 - 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/gradpes
 MEnvSc email: gisela.bento@utoronto.ca
 PhD email: elaine.pick@utoronto.ca
 MEnvSc telephone: (416) 287-7205
 PhD telephone: (416) 208-2910
 Fax: (416) 287-7204

Graduate Department of Physical and Environmental Sciences
 University of Toronto Scarborough
 1265 Military Trail, EV254
 Toronto, Ontario M1C 1A4
 Canada

Physical and Environmental Sciences: Graduate Faculty

Full Members

Abbatt, Jonathan - BSc, PhD
 Allen, D. Grant - BASc, MASc, PhD
 Andrade, Maydianne - BSc, MS, PhD
 Archontitis, George Arhonditis - BSc, MSc, DScA (**Chair and Graduate Chair**)
 Boonstra, Rudy - BSc, PhD
 Cadotte, Marc - BS, MS, PhD
 Campbell, Malcolm - DPhil
 Chen, Jing - BSc, PhD
 Cowling, Sharon - BSc, MSc, PhD
 Desloges, Joseph - BES, MSc, PhD
 Diamond, Miriam - MSc, MSc, PhD
 Dittrich, Maria - BES, MSc, PhD
 Donaldson, D. James - PhD
 Edwards, Elizabeth - BEng, PhD
 Evans, Greg - PhD
 Eyles, Nicholas - BSc, MSc, PhD, DSc
 Finkelstein, Sarah - AB, MPH, PhD
 Fulthorpe, Roberta - BSc, MSc, PhD
 Gough, William - BSc, MSc, PhD
 He, Yuhong - PhD
 Hoffmann, Matthew - BSc, PhD
 Howard, Ken - BSc, MSc, PhD
 Isaac, Marney Elizabeth - BS, MES, PhD
 Izmaylov, Artur - PhD
 Jackson, Donald - BSc, MSc, PhD
 Kerman, Kagan - BScPhm, MSc, ScD
 Klenk, Nicole - BS, MSc, PhD

Kraatz, Heinz-Bernhard - BA, MC, PhD (***Vice-Principal, Research***)

Kronzucker, Herbert - PhD

Lovejoy, Nathan Richard - BSc, MS, PhD

MacIvor, Scott - BSc, MSc, PhD

Malcolm, Jay - BSc, MSc, PhD

Martin, Adam - BA, MF, PhD

Miall, Andrew - BSc, PhD

Mitchell, Carl - PhD

Molnar, Peter Kalman - BS, MMath, PhD

Murphy, Jennifer - BCh, DChem

Peng, Hui - PhD

Rochman, Chelsea - BS, PhD

Sherwood Lollar, Barbara - PhD

Short, Steven - BSc, PhD

Siegel, Jeffrey Alexander - BS, MS, PhD

Simpson, Andre - BSc, PhD

Simpson, Myrna - BS, DPhil

Smith, Sandy - BAgSc, MSc, PhD

Strong, Kimberly - PhD

Sullan, Ruby May - BSc, PhD

Terebiznik, Mauricio - BSc, PhD

Tsuji, Leonard - BSc, DDS, PhD

Vanlerberghe, Greg - BSc, MSc, PhD

Voznyy, Oleksandr - BSc, MSc, PhD

Wania, Frank - MPH, PhD

Wells, Mathew - BS, DPhil

Wiseman, Clare - BES, MSc, ScD

Wortmann, Ulrich - BSc, MSc, PhD

Zhang, Xiaolan - MS, PhD

Associate Members

Bailey, Sarah - BSc, PhD

Bergquist, Bridget - BS, PhD

Bhavsar, Satyendrakumar - BE, PhD

Dalili, Shadi - MSc, PhD

Daxberger, Heidi - PhD

De Silva, Amila - BSc, MSc, PhD

Emilson, Erik - BSc, MSc, PhD

Hadzovic, Alen - BSc, PhD

Harner, Tom - BChe, ME, DrEng

Helm, Paul - BSc, MASc, DChem

Koops, Marten - BSc, MSc, PhD

Laidler, Gita - BA, MSc, PhD

Latulippe, Nicole Monique - BA, MA, PhD

Mackereth, Rob - BSc, MSc, PhD

MacLellan, James - BA, MS, DPhil

Mandrak, Nicholas - BSc, MSc, PhD

Meriano, Mandana - ScD

Mikhaylichenko, Svetlana - MSc, DChem

Mohsin, Tanzina - PhD

Muir, Derek - BSc, MSc, PhD

Palmer, Michelle - BSc, MSc, PhD

Sauer, Effiette - BS, PhD

Smith, Karen Louise - BSc, MASc, MASc, PhD

Steffen, Alexandra - BSc, MSc

Weaver, Dan - BSc, MS, PhD

Weyl, Olaf - PhD

Wilson, Kathleen - AB, AM, PhD

Yerubandi, Ram - MTech, PhD

Zhu, Jiping - BS, MSc, DSc

Physical and Environmental Sciences: Environmental Science MEnvSc

Master of Environmental Science

Program Description

The MEnvSc is a 12-month degree program 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 offers three enrolment options . research, internship, and part-time studies — in each of the three fields. The three designated fields of study are:

- **Climate Change Impacts and Adaptation:** 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.
- **Conservation and Biodiversity:** A major focus is the application of ecological theory and principles to real-world conservation challenges.
- **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.

In all three fields, students can opt for an internship or a research option after eight months of coursework. The Department of Physical and Environmental Sciences has the support of two dedicated internship coordinators who help students find and successfully complete an internship by providing them with professional skills training and in-class workshops on topics that include job search preparation and skills such as: environmental labour market, workplace expectations, professionalism, networking, and more. The MEnvSc program works closely with a broad employer base for internship opportunities. Research-stream MEnvSc students receive intensive and individualized academic and research support from mentors of their choice.

Full-time and part-time study options are available in all fields of study.

Field: Climate Change Impacts and Adaptation

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 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. See [General Regulations section 4.3](#) for 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.
- A science or engineering undergraduate degree including at least two half courses or one full course in each of chemistry, physics, calculus, and biology.

Program Requirements

- **Coursework** consists of **5.5 full-course equivalents (FCEs)** as follows:
 - EES 1100H *Advanced Seminar in Environmental Science* (0.5 FCE)
 - EES 1117H *Climate Change Impact Assessment* (0.5 FCE)
 - EES 1132H *Climate Data Analysis* (0.5 FCE).
 - Note: students who have completed EESD21H3 as part of their undergraduate degree, and achieved a minimum grade of 70%, should replace EES 1132H with another elective graduate course of the same credit weight (0.5 FCE).
 - EES 1133H *Climate Change Science and Modelling* (0.5 FCE)
 - Completion of two of the following three courses:
 - EES 1131H *Applied Climatology* (0.5 FCE)
 - EES 1134H *Climate Change Policy* (0.5 FCE)
 - EES 1136H *Climate Change Adaptation* (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).
- 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 internship 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, the satisfactory completion of a written experience report, and the satisfactory completion and presentation of a poster highlighting the internship experience.
- 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.

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: Conservation and Biodiversity

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 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. See [General Regulations section 4.3](#) for 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.
- An undergraduate degree in biology or a closely related field.

Program Requirements

- **Coursework** consists of **5.5 full-course equivalents (FCEs)** 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 the course list) and 2.0 FCEs for the internship (EES 1116Y) **or**
 - 1.5 FCEs in elective courses (see the course list) and 1.5 FCEs for the research paper (EES 1101Y).
- 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 internship 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, the satisfactory completion of a written experience report, and the satisfactory completion and presentation of a poster highlighting the internship experience.

- 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.

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: Terrestrial and Aquatic Systems

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 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. See [General Regulations section 4.3](#) for 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.
- A science or engineering undergraduate degree including at least two half courses or one full course in each of chemistry, physics, calculus, and biology.

Program Requirements

- **Coursework** consists of **5.5 full-course equivalents (FCEs)** as follows:
 - EES 1100H *Advanced Seminar in Environmental Science* (0.5 FCE)
 - Complete either:
 - 3.0 FCEs in elective courses (see the course list) and 2.0 FCEs for the internship (EES 1116Y) **or**
 - 3.5 FCEs in elective courses (see the 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.
- 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 internship 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, the satisfactory completion of a written experience report, and the satisfactory completion and presentation of a poster highlighting the internship experience.
- 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.

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

Physical and Environmental Sciences: Environmental Science MEnvSc Courses

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 1104H	Microorganisms and the Environment
EES 1105H	Soil Contamination Chemistry
EES 1106H	Geological Evolution and Environmental History of North America
EES 1108H	Environmental Science Field Camp
EES 1109H	Advanced Techniques in Geographic Information Systems
EES 1111H	Freshwater Ecology and Biomonitoring
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	Hydrology and Watershed Management

EES 1127H	Applied Biogeochemistry and Geomicrobiology
EES 1128H	Biophysical Interactions in Managed Environments
EES 1129H	Brownfields Redevelopment
EES 1131H	Applied Climatology
EES 1132H	Climate Data Analysis (exclusion: EESD21H3)
EES 1133H	Climate Change Science and Modelling
EES 1134H	Climate Change Policy
EES 1135H	Environmental Change and Human Health
EES 1136H	Climate Change Adaptation
EES 1137H	Quantitative Applications for Data Analysis
EES 1701H	Environmental Legislation and Policy
EES 1704H	Environmental Risk Assessment
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
EES 4001H	Internship Training 1 (restricted to students enrolled in one of the approved combined degree programs with the MEnvSc)
EES 4003H	Academic Training 1 (restricted to students enrolled in one of the approved combined degree programs with the MEnvSc)

Physical and Environmental Sciences: Environmental Science PhD

Doctor of Philosophy

Program Description

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, physics, and social sciences. Research is clustered into six major concentrations:

- Climate Change and the Environment
- Contaminant Flux
- Environmental Science in Transitional Economies
- Great Lakes Ecosystems
- Remediation and Restoration of Degraded Environmental Systems
- Urban Geoscience

Applicants may be accepted into the PhD program via one of three routes: 1) following completion of an appropriate master's degree; 2) transfer from an appropriate master's program; or 3) direct entry following completion of an appropriate BSc degree.

PhD 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 Physical and Environmental Sciences' additional admission requirements stated below.
- Applicants may be accepted into the PhD program:
 - 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.
 - 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

Program Requirements

- **Coursework.** A total of **2.0 full-course equivalents (FCEs)** as follows:
 - A mandatory 0.5 FCE (EES 2200H *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.
- **Thesis.** 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 where the student is examined on their proposal and their mastery of concepts in environmental science. 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 after incorporating recommendations from 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 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.

Program Length

4 years full-time; 5 years transfer-from-master's

Time Limit

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

PhD Program (Direct-Entry)

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.
- In the case of exceptional students, applicants may be accepted into the PhD program by direct entry; that is, after completing an honours BSc degree in a related discipline with a minimum University of Toronto average of A- or equivalent.

Program Requirements

- **Coursework.** A total of **3.0 full-course equivalents (FCEs)** as follows:
 - A mandatory 0.5 FCE (EES 2200H *Advanced Seminar in Environmental Science*) plus 2.5 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 2.5 FCEs for the degree. However, all courses for the PhD degree must be approved by the student's supervisor and the Graduate Chair.
- **Thesis.** 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 where the student is examined on their proposal and their mastery

of concepts in environmental science. 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 after incorporating recommendations from 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 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.

Program Length

5 years full-time

Time Limit

7 years full-time

Physical and Environmental Sciences: Environmental Science PhD Courses

Core Course

EES 2200H	Advanced Seminar in Environmental Science
-----------	---

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 full-course equivalents. Not all courses are offered every year.

Elective Courses

EES 1102H	Analytical Chemistry for Geoscientists
EES 1104H	Microorganisms and the Environment
EES 1105H	Soil Contamination Chemistry
EES 1106H	Geological Evolution and Environmental History of North America
EES 1109H	Advanced Techniques in Geographic Information Systems
EES 1111H	Freshwater Ecology and Biomonitoring
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

EES 1122H	Global Environmental Security and Sustainable Development
EES 1126H	Hydrology and Watershed Management
EES 1127H	Applied Biogeochemistry and Geomicrobiology
EES 1128H	Biophysical Interactions in Managed Environments
EES 1131H	Applied Climatology
EES 1132H	Climate Data Analysis (exclusion: EESD21H3)
EES 1133H	Climate Change Science and Modelling
EES 1134H	Climate Change Policy
EES 1135H	Environmental Change and Human Health
EES 1136H	Climate Change Adaptation
EES 1137H	Quantitative Applications for Data Analysis
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

Physical Therapy

Physical Therapy: Introduction

Faculty Affiliation

Medicine

Degree Programs

Physical Therapy

MScPT

Overview

The Department of Physical Therapy is committed to educating future and current physical therapists, advancing practice, fostering leadership, and contributing to our communities. Graduates from the Master of Science in Physical Therapy (MScPT) program are improving the health of individuals through the discovery, application, and exchange of knowledge.

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

Physical Therapy: Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
Brooks, Dina - BSc(PT), MSc, PhD
Gibson, Barbara - MSc, BMR(PT), PhD
Jaglal, Susan - BSc, MSc, PhD (*Interim Chair and Interim Graduate Chair*)
Mathur, Sunita - BSc(PT), MSc(PT), PhD
Nixon, Stephanie - BHSc(PT), BA, MSc, PhD
O'Brien, Kelly - BSc(PT), BS, PhD
Patterson, Kara - BSc, BPT, MSc, PhD
Reid, Darlene - BMR(PT), PhD
Salbach, Nancy - BSc(PT), BS, MSc, PhD
Yoshida, Karen - BSc, BPHE, MSc, PhD
Zabjek, Karl - BSc, MCISc, PhD

Members Emeriti

Berg, Katherine - BPT, BSc(PT), MSc, PhD
Cott, Cheryl - DipP, BPT, MSc, PhD
Verrier, Molly - DipOT, MHS

Associate Members

Hunter, Judith - BPT, MSc, PhD
Mori, Brenda - BSc(PT), MSc, PhD
Switzer-Mcintyre, Sharon - BSc, BPHE, MEd, PhD
Yeung, Euson - BSc(PT), MEd, PhD

Physical Therapy: Physical Therapy MScPT

Master of Science in Physical Therapy

Program Description

24-Month Option

The MScPT is a 24-month professional program leading to entry to practice. The program is accredited by Physiotherapy Education Accreditation Canada (PEAC) and [more information about accreditation](#) is available on the Department of Physical Therapy's website. Graduates will be eligible to write the Physiotherapy Competency Examination (PCE), administered by the Canadian Alliance of Physiotherapy Regulators, which qualifies them to practise physical therapy in Canada. Graduates will be eligible to register in the Canadian Physiotherapy Association and the Colleges of Physiotherapy in all Canadian provinces.

12-Month Option (admissions have been administratively suspended)

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 on-campus residency. There is a strong focus on research and best practices integrated throughout the program.

MScPT Program (24-Month Option)

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.
- Applicants 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 include human vertebrate physiology (0.5 full-course equivalent [FCE]); human anatomy (0.5 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). A minimum grade of B. (or 70%) in each of these courses, as per the grade recorded on the transcript, is required.

- 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):
 - Paper-based test: a minimum score of 600, with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE)
 - Internet-based test: a minimum score of 100/120 overall, and 22/30 on the writing and speaking sections.
 - TOEFL candidates must request that results be sent to institution code 0982.
 - Results are due by March 1 of the application year.
- Complete a mandatory, 90-minute computer-based situational judgment test (CASPer) to assist with the selection process. CASPer assesses for non-cognitive skills and interpersonal characteristics that are important for successful students and graduates of the program.
 - The CASPer z-score will be used as the initial screening process. Applicants must score ≥ -1 in order to proceed to the next stage of the admission cycle. Please refer to the [Physical Therapy website](#) for details on how the results are used in the admission process.
- Applicants can apply online using the [Ontario Rehabilitation Sciences Programs Application Service \(ORPAS\)](#). Visit the [Physical Therapy](#) and the [ORPAS](#) websites for more information regarding application requirements and document submissions.

Program Requirements

- Coursework. Students must complete 18.75 full-course equivalents (FCEs) over two years of continuous, full-time study.
- Included within the program structure are 30 weeks of full-time clinical internships.
- Students are required to complete all courses included in the required course list below.

Program Length

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

Time Limit

3 years

MScPT Program (12-Month Advanced-Standing Option)

Admissions to the advanced-standing option have been administratively suspended.

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.
- Applicants 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 practise 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):
 - Paper-based test: a minimum score of 600, with 5 on the Test of Written English (TWE) and 50 on the Test of Spoken English (TSE)
 - Internet-based test: a minimum score of 100/120 overall, and 22/30 on the writing and speaking sections.
- Applicants apply using the SGS Online Admissions Application system. Visit the Physical Therapy website for more information on application requirements and document submissions.

Program Requirements

- Students must complete this program option in an online environment with mandatory on-campus residency requirements.
- Students must attend unit 6 PHT 1006Y (0.75 FCE) and unit 12 PHT 1012Y (1.0 FCE) in on-campus residency periods.
- Students must complete unit 10 PHT 1010Y, a group research project, via online format (0.75 FCE).
- Students must complete PHT 1016H *Evidence Based Practice in Physical Therapy* (0.5 FCE).
- Complete an elective course (0.5 FCE) either online or on campus.
- For information on units of instruction, please visit the Physical Therapy website.
- Students must complete the program option in an online environment. In addition, there are two mandatory on-campus residencies, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

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

Time Limit

3 years

Physical Therapy: Physical Therapy

MScPT Courses

Required Courses

PHT 1101H (0.5 FCE)	Clinical Foundations of Physical Therapy
PHT 1102Y (3.0 FCEs)	Physical Therapy Practice I
PHT 1103Y (3.0 FCEs)	Physical Therapy Practice II
PHT 1104Y+ (3.0 FCEs)	Physical Therapy Practice III
PHT 1105Y (0.75 FCE)	Clinical Internship I (Honours/Pass/Fail)
PHT 1106H (0.5 FCE)	Advanced Critical Thinking in Physical Therapy
PHT 1107H (0.5 FCE)	Scholarly Practice I
PHT 1108Y (0.75 FCE)	Clinical Internship II (Honours/Pass/Fail)
PHT 1109Y (0.75 FCE)	Clinical Internship III (Honours/Pass/Fail)
PHT 1110Y (3.0 FCEs)	Physical Therapy Practice IV
PHT 1111H (0.5 FCE)	Selected Topics in Physical Therapy
PHT 1112Y (0.75 FCE)	Clinical Internship IV (Honours/Pass/Fail)
PHT 1113Y (1.0 FCE)	Scholarly Practice II
PHT 1114Y (0.75 FCE)	Clinical Internship V (Honours/Pass/Fail)

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

Physics

Physics: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Physics

MSc and PhD

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Physics, MSc, PhD
- [Environmental Studies](#)
 - Physics, MSc, PhD

Overview

The Department of Physics carries out research in experimental and theoretical physics in the following fields: earth, atmospheric, and planetary physics; quantum optics; condensed matter physics; subatomic physics and astrophysics; and biological physics. The department is involved in many collaborative efforts and has close ties to many institutes worldwide. Eight of them have a particular impact on students. Not only are they concerned with interdisciplinary work, but they are based, in whole or in part, at the University of Toronto and provide novel research for students at their “home base.” They include: CGCS (Centre for Global Change Science), CIFAR (Canadian Institute for Advanced Research), IPP (Institute for Particle Physics), CITA (Canadian Institute for Theoretical Astrophysics), CQIQC (Center for Quantum Information and Quantum Control), the Fields Institute for Research in Mathematical Sciences, IBBME (Institute of Biomaterials and Biomedical Engineering), and PRO (Photonics Research Ontario).

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

Physics: Graduate Faculty

Full Members

Abbatt, Jonathan - BSc, PhD
 Bailey, David - BSc, PhD
 Barzda, Virginijus - BS, DSc
 Bond, J. Richard - BSc, MS, PhD, FRSC, FRS
 Curtin, David - BSc, MSc, PhD
 Dalal, Neal - BSc, PhD
 Dhirani, Al-Amin - MSc, PhD
 Diamond, Miriam - BSc, MSc, PhD
 Donaldson, D. James - PhD
 Dyer, Charles - BS, MSc, PhD
 Ghent, Rebecca - BA, MSc, PhD
 Goyal, Sidhartha - MS, PhD
 Gradinaru, Claudiu - PhD
 Grisouard, Nicolas - BSc, MS, PhD
 Hilfinger, Andreas - MA, MSc, PhD
 Holdom, Bob - BSc, MA, PhD
 Ilic, Nikolina - BSc, PhD
 James, Daniel - BA, PhD
 John, Sajeew - PhD
 Jones, Dylan - AB, SM, PhD
 Julian, Stephen - BSc, MS, PhD
 Kee, Hae-Young - PhD
 Kim, Yong Baek - PhD
 Kim, Young-June - BS, PhD (**Associate Chair, Graduate Studies**)
 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
 Menou, Kristen - BSc, MS, ScD
 Milkereit, Bernd - DrRerNat
 Miller, R.J. Dwayne - BSc, PhD
 Milstein, Josh - BS, PhD
 Moore, G.W.K. - 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, A.W. - PhD
 Peltier, W Richard - BSc, MSc, PhD
 Pen, Ue-Li - BSc, PhD
 Pfeiffer, Harald - MSc, PhD, CRC
 Popitz, Erich - PhD
 Pysklywec, Russell - BSc, MSc, PhD
 Rauscher, Sarah - BSc, PhD
 Rein, Hanno - MS, DPhil
 Repka, Joe - BSc, PhD
 Ryu, William - AB, PhD
 Savard, Pierre - PhD
 Scaffidi, Thomas - BS, BE, PhD
 Segal, Dvira - BSc, DSc
 Sinervo, Pekka - BSc, PhD

Sipe, John - BSc, MSc, PhD
 Steinberg, Aephraim - BS, MA, PhD
 Strong, Kimberly - PhD (**Chair and Graduate Chair**)
 Teuscher, Richard - BSc, MSc, PhD
 Thompson, Christopher - BSc, PhD
 Thywissen, Joseph - AM, PhD
 Trischuk, William - PhD
 Vanderlinde, Keith - PhD
 Vutha, Amar C. - MSc, PhD
 Walker, Kaley - BSc, PhD
 Wei, John - PhD
 Wells, Mathew - BS, DPhil
 Wunch, Debra - BSc, MSc, PhD
 Zilman, Anton - BSc, MSc, PhD

Members Emeriti

Drake, Thomas - BSc, MSc, PhD
 Dunlop, David - MA, PhD
 Litherland, Albert - BSc, PhD, FRS
 Logan, Robert - BSc, PhD
 May, Albert - BA, MA, PhD
 Perz, John - BASc, MSc, PhD
 Rowe, David - BA, MA, DPhil
 West, Gordon - BASc, MA, PhD
 Wong, Samuel - BA, MS, PhD

Associate Members

Deyirmenjian, Vatche Berj - PhD
 Lee, Christopher - BA, PhD
 Polavarapu, Saroja - PhD

Physics: Physics MSc

Master of Science

Program Description

The MSc program is directed primarily to qualified students seeking a career in scientific research, with an emphasis on doctoral-stream studies. The MSc can be taken both with or without a thesis, the latter being the norm.

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.
- 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. See [General Regulations section 4.3](#) for requirements.

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]);
 - a Research Report, which consists of a 6000-series research course appropriate to the field of physics (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 physics (1.0 FCE);
 - a Research Project, which consists of a 7000-series seminar course appropriate to the field of physics (1.0 FCE) and PHY 3400Y (1.0 FCE).
 - **Option 3: Coursework plus MSc Research Thesis:**
 - graduate lecture courses (2.0 FCEs);
 - thesis;
 - selection of the program is made by the student and faculty advisor in consultation with the Associate Chair.
- MSc students are expected to attend the weekly general colloquium conducted by the department.
- The residence requirement is one year, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

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

Time Limit

3 years full-time

Physics: Physics PhD

Doctor of Philosophy

Program Description

The Department of Physics offers excellent quality and breadth of research fields. Its internationally leading research teams, in both theory and experiment, operate across a broad spectrum of topics as well as collaborative specializations in interdisciplinary subjects. Graduates work in government, industry, and education around the world.

Applicants may enter the PhD program via one of two routes: 1) ing completion of an appropriate master's degree; 2) direct entry after completing a bachelor's degree.

PhD Program

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.
- 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. See [General Regulations section 4.3](#) for requirements.

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 **3.0 full-course equivalents (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 in graduate lecture courses towards their PhD course requirement.
- Complete a **qualifying oral examination**. Students must complete the qualifying examination within eight 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.
- Students are expected to attend the weekly general colloquium conducted by the department.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- Outstanding applicants may be considered directly from undergraduate programs. Normally, these applicants will have an undergraduate average of A or higher.
- 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. See [General Regulations section 4.3](#) for requirements.

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 **3.0 full-course equivalents (FCEs)**: graduate lecture **courses and a thesis**.
- Students must complete a **qualifying oral 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.
- Students are expected to attend the weekly general colloquium conducted by the department.

Program Length

5 years

Time Limit

7 years

Physics: Physics MSc, PhD Courses

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	Laser Physics
PHY 1487H	Quantum Theory of Solids I
PHY 1489H	Introduction to High Energy Physics
PHY 1491H	Current Interpretations of Quantum Mechanics
PHY 1492H	Physics of the Earth
PHY 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 2403H	Quantum Field Theory I
PHY 2404H	Quantum Field Theory II
PHY 2405H	Experimental High Energy Physics
PHY 2406H	Special Topics in Particle Physics I
PHY 2407H	Special Topics in Particle Physics II
PHY 2408H	Phenomenology of the Standard Model
PHY 2502H	Climate System Dynamics
PHY 2504H	Advanced Atmospheric Dynamics
PHY 2505H	Atmospheric Radiative Transfer and Remote Sounding
PHY 2506H	Data Assimilation and Retrieval Theory
PHY 2509H	Special Topics in Atmospheric Physics I
PHY 2510H	Special Topics in Atmospheric Physics II
PHY 2603H	Inverse Theory
PHY 2609H	Planetary Physics
PHY 2706H	Special Topics in Biological Physics
PHY 2707H	Cellular and Molecular Biophysics I
PHY 2708H	Cellular and Molecular Biophysics II
PHY 2709H	Quantitative Biology of Systems, Organisms, and Populations
PHY 2710H	Computational Methods in Biophysics
PHY 2711H	Biophysical Techniques
JGP 4170H	Geotectonics
JPE 2605H	Advanced Seismology

* *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

Report Course for MSc Students

PHY 3400Y ⁺	Selected Topics in Physics
------------------------	----------------------------

* *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

Physiology

Physiology: Introduction

Faculty Affiliation

Medicine

Degree Programs

Medical Physiology

MHSc

Physiology

MSc and PhD

Combined Degree Programs

[STG, MD / PhD](#)

Collaborative Specializations

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

- [Biomedical Engineering](#)
 - Physiology, MSc, PhD
- [Cardiovascular Sciences](#)
 - Physiology, MSc, PhD
- [Developmental Biology](#)
 - Physiology, MSc, PhD
- [Human Development](#) (admissions have been suspended)
 - Physiology, PhD
- [Neuroscience](#)
 - Physiology, MSc, PhD
- [Resuscitation Sciences](#)
 - Physiology, MSc, PhD

Overview

In the Department of Physiology, 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

MHSc Program

Web: www.physiology.utoronto.ca
 Email: mhsc.physiology@utoronto.ca
 Telephone: (416) 978-6843
 Fax: (416) 978-4940

Department of Physiology
 University of Toronto
 Room 3209, Medical Sciences Building
 1 King's College Circle
 Toronto, Ontario M5S 1A8
 Canada

MSc and PhD Programs

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

Physiology: Graduate Faculty

Full Members

Adeli, Khosrow - DipChem, MSc, PhD
 Anderson, Harvey - BSc, MSc, PhD
 Bagli, Darius - BS, MD
 Barr, Cathy - BSc, PhD
 Bear, Christine - BSc, MSc, PhD
 Belik, Jaques - MD
 Belsham, Denise - PhD
 Bolz, Steffen-Sebastian - MD, DrMed
 Brown, Theodore - BSc, PhD
 Brubaker, Patricia - BSc, PhD
 Caniggia, Isabella - MD, PhD
 Carlen, Peter - MD
 Collingridge, Graham - BSc, PhD
 Connelly, Kim - MBBS, PhD
 Cox, Brian - BSc, MSc, PhD
 dos Santos, Claudia - MSc, MD
 Duffin, James - BASc, MASc, PhD
 Eubanks, James - BSc, AA, PhD
 Feng, Zhong-Ping - PhD (**Graduate Coordinator, Student Admissions and Affairs**)
 Ferguson, Niall - MSc, MD
 Fisher, Joseph - MD
 Frankland, Paul - MA, PhD
 Gaisano, Herbert - BS, MD
 Giacca, Adria - MD
 Gollob, Michael - MD
 Gramolini, Anthony - BSc, MSc, PhD (**Graduate Coordinator, Academic Affairs**)
 Hare, Gregory - MD, PhD

Harrison, Robert - PhD, DSc
 Heximer, Scott - PhD (**Chair and Graduate Chair**)
 Horner, Richard - BSc, PhD
 Husain, Mansoor - MB, MD
 Hutchison, William Duncan - BSc, MSc, PhD
 Jia, Zhengping - PhD
 Jones, Nicola - MD
 Josselyn, Sheena - MA, PhD
 Jurisicova, Andrea - PhD
 Kingdom, John - DipCH, MB, MD
 Klip, Amira - ScD
 Lam, Tony - BS, DPhil
 Lambe, Evelyn - AB, MSc, PhD
 Levitan, Robert - MSc, MDCM
 Lewis, Gary - BCh, MBChB
 Li, Ren-Ke - MHSc, MSc, MD, PhD
 Librach, Clifford - MD
 Liu, Fang - PhD
 Liu, Mingyao - MSc, MD
 Lye, Stephen - BSc, PhD
 Matthews, Stephen - BSc, DPhil
 McGahan, Anita - BA, MA, MBA, PhD
 McGowan, Patrick - BSc, MA, PhD
 McNamara, Patrick - MB
 Miller, Freda - BSc, PhD
 Monnier, Philippe - MBA, PhD
 Mount, Howard - BSc, PhD (**Graduate Program Liaison**)
 Ng, Dominic - MD
 Nostro, Cristina - MSc, PhD
 Orser, Beverley - MD
 Palmert, Mark - MD
 Pausova, Zdenka - MD
 Peever, John - MSc, PhD
 Post, Martin - PhD
 Prescott, Steven - BSc, MSc, MD, PhD
 Rocheleau, Jonathan - BSc, PhD
 Rogers, Ian - MSc, PhD
 Rosenblum, Norman - MD
 Salter, Michael - MD, PhD
 Scholey, James - MD
 Seed, Mike - MBBS
 Seltzer, Ze'ev - DMD, BMedSc
 Sessle, Barry - BS, MDS, BDS, PhD
 Skinner, Frances - PhD
 Subbarao, Padmaj - MD
 Sugita, Shuzo - PhD
 Sun, Hong-Shuo - MSc, DrMed, DPhil
 Sweezey, Neil - BSc, MD, MD
 Thomas, Scott - BSc, MSc, PhD
 Trimble, William - BSc, PhD
 Tweed, Douglas - MD, PhD, PhD
 Tymianski, Michael - BA, MD, PhD
 Wang, Lu-Yang - PhD (**Vice Chair, Academic - Graduate**)
 Wheeler, Michael - BSc, PhD
 Wilson, Gregory - MSc, MD
 Wittnich, Carin - MSc, DVM
 Zhang, Haibo - MSc, PhD
 Zhen, Mei - PhD
 Zhuo, Min - MS, PhD

Members Emeriti

Adamson, Susan - BSc, MSc, MD, PhD
 Atwood, Harold - BA, MA, PhD, DSc, FRSC
 Backx, Peter - DrMedVet, PhD, PhD
 Bocking, Alan - MD
 Casper, Robert - MD
 Challis, John - BSc, PhD, DSc, FRSC

Charlton, Milton - BSc, MSc, PhD
 Dostrovsky, Jonathan - BSc, MSc, PhD
 Kwan, Hon - BAsC, MSc, PhD
 Norwich, Kenneth - MSc, PhD
 Pennefather, Peter - BSc, PhD
 Schlichter, Lyanne - BSc, MSc, PhD
 Sole, Michael - BSc, MD
 Stanley, Elise - PhD
 Tanswell, Alan - BS, MBBS, MBBS
 Wojtowicz, J. Martin - BSc, PhD

Associate Members

Billia, Filio - BSc, MSc, MD, PhD
 Cherney, David - MD, PhD
 Friedberg, Mark - MD
 Hay, Etay - BSc, MSc, PhD
 Ivakine, Evgueni - MSc, MSc, PhD
 Kadis, Darren - BSc, MA, PhD
 Laffey, John - BSc, MA, DrMed, MB
 Mazer, Cyril David - MD
 Miliotis, Helen - BSc, PhD
 Ni, Heyu - MSc, MD, PhD
 O'Brien, Catherine - BSc, MSc, DrMed, PhD
 Pierro, Agostino - MD
 Ramsey, Amy - PhD
 Shynlova, Oksana - MSc, PhD
 Steinberg, Benjamin - MD, PhD
 Wheeler, Anne - BSc, PhD

Physiology: Medical Physiology MHSc

Master of Health Science

Program Description

The MHSc in Medical Physiology is a professional course-based master's program, designed to provide graduates with the analytical and professional skills to interpret and apply physiology to health-related contexts.

The program blends advanced topic-specific physiology courses with:

- a mentored current literature review, where graduates acquire the critical analysis skills to identify new knowledge relevant to specific problems in human health;
- a big data and health course, where students gain the skills to analyze and interpret data sets relevant to human health;
- a commercialization and collaboration course, where students will acquire skills to understand how to commercialize new discoveries and how to work in a team science environment; and
- a practicum opportunity, where students will experience how physiological knowledge is applied to real-life scenarios in their area of interest.

Each graduate will develop the analytical and communication skills to design and implement new health interventions. Students will develop an individual program based on their area of interest.

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 demonstrated exceptional scholarly achievement based on the following criteria:
 - a one-page statement summarizing how this program will contribute to the advancement of the applicant's professional goals
 - a curriculum vitae (CV)
 - two letters of reference.
- Applicants must have an appropriate bachelor's degree from a recognized university with an average of at least A. in the last two years of study. Students must have completed at least third year-level physiology or equivalent courses and demonstrate an interest in physiology.
- Selected applicants will be interviewed prior to final acceptance into 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 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 [Physiology website](#) for departmental standards.

Program Requirements

All students are required to:

- Take **6.0 full-course equivalents (FCEs)** in physiology courses:
 - 1.0 FCE: PSL 4000Y⁰ *Seminars and Graduate Professional Development* (Credit/No Credit)
 - 1.0 FCE: PSL 4010Y *Mentored Literature Review Project in Physiology*
 - 1.0 FCE: PSL 4020Y *Medical Physiology Practicum* (Credit/No Credit)
 - 0.5 FCE: PSL 4030H *Clinical Physiology*
 - 0.5 FCE: PSL 4040H *Big Data and Health*
 - 0.5 FCE: PSL 4050H *Collaboration and Commercialization in Physiology*
 - 1.5 elective FCE in one of four areas General Physiology; Endocrine and Reproductive Sciences; Cardiovascular, Respiratory and Renal Sciences (Integrative Sciences); and Brain and Behaviour (Neurosciences).

Students will be matched with a mentor and practicum placement in consultation with the relevant course director and MSc program director.

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. Credit is given when the course is completed.*

Physiology: Physiology MSc

Master of Science

Program Description

The MSc program provides advanced training in physiology, with an emphasis on gaining experience in conducting research using modern experimental methods under the direct supervision of a member of the department's graduate faculty. Students will complete coursework, attend and give presentations of scientific work, submit a written thesis based on original research, and defend the thesis at an oral examination. It is not required that the thesis work be published or represent a finished research project, but it must show the student's mastery of specific techniques, their application to a specific problem, and a scholarly understanding of the research subject. Through this program, students will broaden and deepen their knowledge of physiology and its current scientific literature. They will learn and practise scientific skills of critical thinking, devising research questions, and communicating scientific ideas orally and in writing.

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 an average of at least A– in the last two years of study 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 [Physiology 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.
- 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 in Fall, Winter, or Summer.

⁰ Course that may continue over a program. Credit is given when the course is completed.

Physiology: Physiology PhD

Doctor of Philosophy

The PhD degree is an advanced research degree. Upon its completion, graduates are expected to function as independent research scientists. Students will complete coursework, attend and give multiple presentations of scientific work, and demonstrate the ability to carry out research of publishable quality as evidenced by a written thesis based on original research and an oral defence of the work. Through this program, students will broaden and deepen their knowledge of physiology and its current scientific literature. They will develop and practise scientific skills of critical thinking, devising research questions, understanding experimental design,

techniques, and analysis, and communicating scientific ideas orally and in writing.

Applicants may enter the PhD program via one of three routes: 1) following completion of an appropriate MSc degree; 2) transfer from the University of Toronto MSc program in Physiology; or 3) direct entry after completing a bachelor's degree.

PhD Program (Following Completion of an MSc)

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 into the PhD program after completion of an appropriate MSc degree program with an average of at least A- from a recognized university. Students with excellent research experience are encouraged to apply.
- 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 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 [Physiology website](#) for departmental standards.

Program Requirements

- Students must 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.
- Courses are selected in consultation with the supervisor and/or advisory committee. See the [Physiology website](#) for details.
- 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**

Time Limit

6 years

** Students may begin in Fall, Winter, or Summer.

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Transfer)

Transfer Requirements

- Students may be admitted via transfer from the University of Toronto MSc program in Physiology. Transfer from the MSc into the PhD program 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. Students with excellent research experience are encouraged to apply. 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 Requirements

- Students must 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 PSL 1066H⁰ *Research Grant Proposal* (Credit/No Credit), mandatory for all PhD students in Physiology
 - 0.5 FCE in physiology graduate-only courses
 - 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).
 - Students who transfer from the MSc program in Physiology may claim up to 1.0 FCE from the MSc program in Physiology.
- Courses are selected in consultation with the supervisor and/or advisory committee. See the [Physiology website](#) for details on course requirements.
- The recommended completion time for the doctoral program is approximately five years from the start of the MSc, 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

5 years

Time Limit

7 years

** Students may transfer in Fall, Winter, or Summer.

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Direct-Entry)

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.
- 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. Students with excellent research experience are encouraged to apply.
- 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 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 [Physiology website](#) for departmental standards.

Program Requirements

- Students must 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).

- Courses are selected in consultation with the supervisor and/or advisory committee. See the [Physiology website](#) for details.
- The recommended completion time for the doctoral program is five 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

5 years**

Time Limit

7 years

** Students may begin in Fall, Winter, or Summer.

⁰ Course that may continue over a program. Credit is given when the course is completed.

Physiology: Physiology MSc, PhD Courses

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
JCV 3064H	Advanced Research in Cardiovascular Sciences — Microvascular Medicine
JCV 3065H	Advanced Topics in Cardiovascular Sciences — Systems Biology
JPB 1071H	Advanced Topics: Computational Neuroscience
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 1020H	Current Topics in Reproductive Endocrinology and Infertility
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 1072H	Advanced Topics in the Neural Basis for Sensation
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)
PSL 4000Y ⁰	Seminars and Graduate Professional Development (Credit/No Credit)
PSL 4010Y	Mentored Literature Review Project in Physiology
PSL 4020Y	Medical Physiology Practicum (Credit/No Credit)
PSL 4030H	Clinical Physiology
PSL 4040H	Big Data and Health
PSL 4050H	Collaboration and Commercialization in Physiology

⁺ 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 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

Political Science

Political Science: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Political Science

MA

- Fields:
 - Political Economy of International Development;
 - Political Science;
 - Political Theory

PhD

- Fields:
 - Canadian Politics;
 - Comparative Politics;
 - Development Studies;
 - International Relations;
 - Political Theory;
 - Public Policy

Combined Degree Programs

- [STG, Law, JD / Political Science, PhD](#)

Collaborative Specializations

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

- [Contemporary East and Southeast Asian Studies](#)
 - Political Science, MA
- [Development Policy and Power](#)
 - Political Science, MA
- [Diaspora and Transnational Studies](#)
 - Political Science, MA, PhD
- [Environmental Studies](#)
 - Political Science, MA, PhD
- [Ethnic and Pluralism Studies](#)
 - Political Science, MA, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Political Science, PhD
- [Jewish Studies](#)
 - Political Science, MA, PhD
- [Sexual Diversity Studies](#)
 - Political Science, MA, PhD
- [South Asian Studies](#)
 - Political Science, PhD
- [Women and Gender Studies](#)
 - Political Science, MA, PhD

Overview

The Department of Political Science is one of the largest political science departments in the western world. It is committed to fostering a collegial environment for graduate students and personal interaction between faculty and students.

The department has a large and academically diverse research-oriented faculty, well represented in the various sub-fields of the discipline (Political Theory, International Relations, Comparative Politics, Development Studies, Canadian Politics, and Public Policy). The department also participates in a wide range of interdisciplinary graduate programs.

Since entrance requirements and standards of work are high, so is the calibre of students. Many hold prestigious fellowships, and several have recently won major awards, including the Canadian Political Science Association and American Political Science Association's prizes for best doctoral theses in their areas.

Graduates have gone on to academic careers, public service, and other work in all provinces of Canada, the United States, and many other countries. The University maintains an active placement service to assist graduate students seeking employment in the academic world. Graduate students have established the Graduate Association for Students in Political Science to foster intellectual exchanges, social events, and student participation in all aspects of department life.

Contact and Address

Web: politics.utoronto.ca/graduate

Email: louis.tentsos@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

Political Science: Graduate Faculty

Full Members

Adler, Emanuel - MA, PhD, FRSC
Balot, Ryan - BA, AM, PhD
Bashevkin, Sylvia - BA, MA, PhD, FRSC
Bathelt, Harald - MA, PhD, CRC
Beiner, Ronald - BA, DPhil
Bernstein, Steven - PhD (**Director of Graduate Studies**)
Bertoldi, Nancy - BA, MA, PhD
Bertrand, Jacques - BA, MSc, MA, DrRerPol
Braun, Aurel - BA, MA, PhD
Brennitz, Dan - BA, PhD
Cameron, David - PhD, , FRSC
Carens, Joseph - AB, MPH, MPH, PhD
Chambers, Simone - BA, MPH, MA, PhD
Cochrane, Christopher Brian - BA, MA, PhD
Cook, David - BA, MA, PhD
Craft, Jonathan - MA, PhD

Day, Richard - BA, MA, PhD
 Deber, Raisa - BS, MS, PhD
 Deibert, Ronald - BA, MA, PhD
 Eyoh, Dickson - MA, PhD
 Green, Jessica - PhD, PhD
 Gunitskiy, Vsevolod - BA, MA, MPH, PhD
 Haddow, Rodney - BA, MSc, PhD
 Handley, Antoinette - BA, MPH, PhD (**Chair and Graduate Chair**)

Hansen, Randall - BA, MPH, PhD, CRC
 Hirschl, Ran - BA, LLB, MA, MPH, PhD, CRC
 Hoffmann, Matthew - BSc, PhD
 Homer-Dixon, Thomas - BA, PhD
 Jung, Courtney - BA, MA, PhD
 Kingston, Paul - BA, MA, MPH, DPhil
 Kingston, Rebecca - BA, MA, PhD
 Kirton, John - BA, MA, PhD
 Kohn, Margaret - BA, MA, PhD
 Kuokkanen, Rauna - MA, MA, PhD
 Lipsy, Phillip - PhD
 Loewen, Peter - PhD
 Magocsi, Paul - BA, MA, MA, PhD, FRSC
 McCarney, Patricia - BA, MCP, PhD
 Murali, Kanta - BA, PhD
 Nedelsky, Jennifer R - BA, MA, PhD
 Nevitte, Neil - BA, MA, PhD, FRSC
 Norrlof, Carla - BS, MIR, MS, DrRerPol
 Olive, Andrea - PhD
 Ong, Lynette - BA, AM, PhD
 Orbinski, James - BSc, MA, MD
 Orwin, Clifford - AB, AM, PhD
 Pauly, Louis - BA, MA, MSc, MSc, PhD, CRC, FRSC
 Prichard, Wilson R.S - BA, MPH, DPhil
 Rayside, David - BA, AM, PhD
 Roach, Kent - BA, LLB, LLM
 Sabl, Andrew - PhD
 Schatz, Edward - PhD
 Schneiderman, David - BA, LLB, LLM
 Shachar, Ayelet - LLB, BA, LLM, SJD
 Shanks, Torrey - BA, PhD
 Skogstad, Grace - DrRerPol
 Stein, Janice - BA, MA, PhD, OC, FRSC
 Teichman, Judith Ann - BA, MA, PhD
 Tolley, Erin - PhD
 Triadafilopoulos, Triadafilos - BA, MA, PhD
 Turner, Dale - 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
 Donnelly, Michael - BSc, MA, PhD
 Falkenheim, Victor - AB, MA, PhD
 Griffiths, Franklyn J.C. - 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
 Russell, Paul - BA, BEd, MA
 Sandbrook, Richard - BA, MA, DPhil, FRSC
 Solomon, Peter - BA, MA, PhD
 Solomon, Susan - BA, MA, PhD
 Stren, Richard - BA, MA, PhD
 Watkins, Melville - BCom

Associate Members

Abele, Frances - PhD
 Anderson, Noel - BA, PhD
 Ariga, Kenichi - MA, MCP, PhD
 Attridge, Michael - BA, MTh, DTh
 Besco, Randy - BA, MA, PhD
 Borins, Sandford - BA, PhD
 Catherine, LeGrand - PhD
 Choudhry, Sujit - LLB, LLM
 Dalby, Simon - PhD
 Gilady, Lilach - BA, MPH, MA, PhD
 Guzzini, Stefano - PhD
 Indart, Gustavo - BA, MA, PhD
 Kahraman, Filiz - BA, MA, PhD
 King, Michael - PhD
 Maile, Uahikea - PhD
 Moreau, Julie - PhD
 Nacol, Emily Catherine - BA, MA, MPH, PhD
 Neville, Kate - PhD, PhD
 Reisenbichler, Alexander - BA, MA, PhD
 Rheault, Ludovic - PhD
 Shesterinina, Anastasia - PhD
 Stark, Andrew - BA, MSc, AM, PhD
 Walton, Matthew - PhD
 Wright, Joseph - PhD

Political Science: Political Science MA

Master of Arts

Program Description

The MA 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 Economy of International Development; Political Science; and Political Theory. Students whose interests are primarily normative and philosophical may choose the field of Political Theory.

The MA program may be taken on a full-time or part-time basis.

Field: Political Economy of International Development (PEID)

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 must provide evidence of a satisfactory background in political science and a second social science. Applicants intending to enrol in a master's-level economics course must meet 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 department's website.

Program Requirements

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)** as follows:
 - POL 2408H *Political Economy of International Development* (0.5 FCE).
 - Either POL 2345H *Politics of Growth in Developing Countries* or POL 2400H *Theories and Issues — The Politics of Development* (0.5 FCE).
 - 0.5 FCE in anthropology, geography, or economics, selected from an approved course list.
 - 1.0 FCE taken from the approved political science course list.
 - A research essay in the political economy of international development within the context of the *MA Research Seminars*, POL 2810Y *MA Research Seminar I* or POL 2811Y *MA Research Seminar II* (1.0 FCE). Students enrolled in a collaborative specialization with a similar requirement are exempted.
 - 0.5 FCE from either list of approved courses.
- The equivalent of 1.0 FCE may be taken in a cognate discipline with the approval of the department.
- Programs in which additional requirements or prerequisites must be met may take longer than three sessions to complete.

Program Length

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

Time Limit

3 years full-time; 6 years part-time

Field: Political Science

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.
- 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 department's website.

Program Requirements

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)** including:
 - At least 0.5 FCE in Political Theory, which can be either POL 2040H *Horizons of Political Reflection* or any other theory course.
 - At least 0.5 FCE in statistics or research design. POL 2503H *Thinking Through Research Design* and POL 2504H *Statistics for Political Scientists* are among the courses currently offered by the department which meet this requirement.
 - The equivalent of 1.0 FCE may be taken in a cognate discipline with the approval of the department.
 - A research essay (1.0 FCE) within the context of the *MA Research Seminars*, POL 2810Y *MA Research Seminar I* or POL 2811Y *MA Research Seminar II*. Students enrolled in a collaborative specialization with a similar requirement are exempted.
- Programs in which additional requirements or prerequisites must be met may take longer than three sessions to complete.

Program Length

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

Time Limit

3 years full-time; 6 years part-time

Field: Political Theory

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.
- 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 department's website.

Program Requirements

- **Coursework.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)** as follows:
 - 2.0 FCEs in Political Theory.
 - At least 1.0 FCE in an area outside Political Theory.
 - The equivalent of 1.0 FCE may be taken in a cognate discipline with the approval of the department.
 - All courses must be chosen in consultation with the MA supervisor.
- Programs in which additional requirements or prerequisites must be met may take longer than three sessions to complete.

Program Length

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

Time Limit

3 years full-time; 6 years part-time

Political Science: Political Science PhD

Doctor of Philosophy

Program Description

PhD students will declare two fields:

- Field 1 will be one of:
 - Canadian Politics
 - Comparative Politics
 - International Relations
 - Political Theory
 - Public Policy
- Field 2 will be one of:
 - Canadian Politics
 - Comparative Politics
 - Development Studies
 - International Relations
 - Political Theory
 - Public Policy

Applicants may be admitted to the PhD program via one of three routes:

- **With an MA:** excellent students who have completed an MA degree in political science (or its equivalent) by the time of enrolment.
- **Transfer:** 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.
- **Direct-entry:** 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.

PhD Program

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 must have completed an MA degree in political science (or its equivalent) by the time of enrolment.
- Applicants are expected to have achieved grades averaging A- or better in their most recent degree.
- Applicants must submit a [complete application](#) according to the instructions.

Program Requirements

- **Coursework.** Students must complete **2.0 to 5.0 full-course equivalents (FCEs)** depending on the student's relevant background in the fields or areas of choice:
 - Most students entering with an MA take the equivalent of 4.0 FCEs to satisfy program requirements; students must take a minimum of 2.0 FCEs with the department after entering the PhD program.
 - 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.
- Students will declare two fields:
 - **Field 1** will be one of Canadian Politics, Comparative Politics, International Relations, Political Theory, or Public Policy. The normal course requirement for Field 1 will be 2.0 FCEs, including a 1.0 FCE core course requirement.
 - **Field 2** will be one of Canadian Politics, Comparative Politics, Development Studies, International Relations, Political Theory, or Public Policy. The normal course requirement for Field 2 will be 1.5 FCEs, including a 1.0 FCE core course requirement (with the exception of a 0.5 FCE core course requirement in Development Studies).
- The Director of Graduate Studies may exercise discretion to waive the Field 2 requirement for students enrolled in collaborative specializations.

- Students who do not designate Political Theory as Field 1 must complete 0.5 graduate-level FCE in Political Theory.
- Students must complete 0.5 FCE in qualitative methods. This requirement may be waived on the basis of MA work.
- Students who do not designate Political Theory as Field 1 must complete 0.5 FCE in quantitative methods. This requirement may be waived on the basis of MA work. Students who designate Political Theory as Field 1 will substitute a non-waivable 0.5 FCE intensive reading requirement for the quantitative methods requirement.
- Students must complete POL 2812Y *PhD Research Design* (1.0 FCE), normally during Year 3; students who have designated Political Theory as Field 1 are exempted.
- **Field examinations.**
 - Students must 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.
 - A student who fails to achieve a grade of at least A- is permitted one opportunity to retake a field 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 December of Year 3, students must have:
 - Established a thesis committee of three faculty members including a thesis supervisor and
 - Completed a draft of a thesis proposal of approximately 25 pages for submission to the thesis committee. Final revisions of the proposal must be approved by the end of Year 3. 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.
- **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.
- Students must achieve an A- average in coursework and an A- in their field examinations to remain in good standing.
- Minimum of three sessions in **residence**, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.
- Although the program has been designed for completion in four years, some students may require longer to complete all the requirements.

Program Length

4 years full-time; 5 years transfer-from-master's

Time Limit

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

PhD Program (Direct-Entry)

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.
- Exceptional students who have completed an appropriate bachelor's degree with a concentration in political science by the time of enrolment. Such students 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 and provided they meet the course requirements of one of the three MA fields
- Applicants 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

- **Coursework.** Students must complete **6.0 full-course equivalents (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 following field requirements.
- Students will declare two fields:
 - **Field 1** will be one of Canadian Politics, Comparative Politics, International Relations, Political Theory, or Public Policy. The normal course requirement for Field 1 will be 2.0 FCEs, including a 1.0 FCE core course requirement.
 - **Field 2** will be one of Canadian Politics, Comparative Politics, Development Studies, International Relations, Political Theory, or Public Policy. The normal course requirement for Field 2 will be 1.5 FCEs, including a 1.0 FCE core course requirement (with the exception of a 0.5 FCE core course requirement in Development Studies).
- The Director of Graduate Studies may exercise discretion to waive the Field 2 requirement for students enrolled in collaborative specializations.
- Students who do not designate Political Theory as Field 1 must complete 0.5 graduate-level FCE in Political Theory.
- Students must complete 0.5 FCE in qualitative methods. This requirement may be waived on the basis of MA work.
- Students who do not designate Political Theory as Field 1 must complete 0.5 FCE in quantitative methods. Students who designate Political Theory as Field 1 will substitute a non-waivable 0.5 FCE intensive reading requirement for the quantitative methods requirement.
- Students must complete POL 2812Y *PhD Research Design* (1.0 FCE), normally during Year 4; students who have designated Political Theory as Field 1 are exempted.
- **Field examinations.**
 - Students must 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. A student who fails to achieve a grade of at least A- is permitted one opportunity to retake a field 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 December of Year 4, students must have:
 - Established a thesis committee of three faculty members including a thesis supervisor and
 - Completed a draft of a thesis proposal of approximately 25 pages for submission to the thesis committee. Final revisions of the proposal must be approved by the end of Year 4. 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 6.
- **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 4.
- Students must achieve an A- average in coursework and an A- in their field examinations to remain in good standing.
- Minimum of six sessions in **residence**, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.
- Although the program has been designed for completion in five years, some students may require longer to complete all the requirements.

Program Length

5 years

Time Limit

7 years

Political Science: Political Science MA, PhD Courses

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](#).

Canadian Politics

POL 2100H	Issues and Foundations in Canadian Government (core)
POL 2102H	Topics in Canadian Politics I
POL 2103H	Topics in Canadian Politics II

POL 2104H	Political Analysis in Canadian and Comparative Politics (core)
POL 2105H	Canadian and Comparative Political Development (core)
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 2190Y	Topics in Canadian Politics I
POL 2191Y	Topics in Canadian Politics II
POL 2316H	Women and Politics
POL 2317H	Politics and Policy Analysis
POL 2345H	Politics of Growth in Developing Countries
HAD 5765H	Case Studies in Health Policy

Comparative Politics

JHP 1289Y	Twentieth-Century Ukraine
POL 2139H	The Canadian Welfare State in Comparative Perspective
POL 2268H	International Relations of Ethnic Conflict
POL 2301H	Political Parties in Comparative Perspective
POL 2307H	Political Economy of Technology: from the Auto-Industrial to the Information Age
POL 2314H	Public, Private, and the Liberal State
POL 2317H	Politics and Policy Analysis
JRA 2321H	Topics in Comparative Politics
POL 2321H, Y	Topics in Comparative Politics I
POL 2322H, Y	Topics in Comparative Politics II
POL 2326H	Democracy and Dictatorship
POL 2335H	Business and Politics: Power in a Global World
JRA 2337H	Government Law and Politics in Russia
POL 2345H	Politics of Growth in Developing Countries
POL 2351H	Contentious Politics
POL 2353H	Authoritarianism in Comparative Perspective
POL 2364H	Urban Policy and Policymaking
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
JPF 2430Y	Cities
POL 2700H	Foundations and Approaches to Comparative Politics (core)
POL 2701H	Comparative Institutional Politics: Governance, Parties, and Structures of State Power (core)
POL 2702H	Constituent Power in Comparative Perspective: Identity, Contention, and Mobilization (core)

Development Studies

POL 2322H	Topics in Comparative Politics II
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 2400H	Theories and Issues . The Politics of Development
POL 2403H, Y	Topics in African Politics I
POL 2404H, Y	Topics in African Politics II
POL 2405H	Topics in Latin American Politics
POL 2408H	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
JPF 2430Y	Cities

International Relations

POL 2000H	Ancient Political Thought to the Rise of Modernity (core)
POL 2001H	Contemporary Political Thought
POL 2002H	Modern and Contemporary Political Thought (core)
POL 2006H	Studies in Modern Political Theory
POL 2007H	Twentieth-Century Political Thought
POL 2011H, Y	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 2024H	Feminist Theory
POL 2025H	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
JPJ 2029H	Religion and the Liberal State: the Case of Islam
POL 2038H	Studies in Comparative Political Theory
POL 2040H	Horizons of Political Reflection
JPR 2051H	Fanaticism: A Political History
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 2075Y	Post-Modern and Contemporary Thought
POL 2212H	Human Rights, Politics, and International Relations
POL 2226H	Ethics and International Relations
JHP 2351Y	The People From Nowhere
POL 2371H	Urban Revolution: Contemporary Constellations of Spatial Politics

RLG 3622H	Maimonides and His Modern Interpreters
-----------	--

Public Policy

POL 2167H	The Politics of Immigration and Multiculturalism in Canada
POL 2213H	Global Environmental Politics
POL 2307H	Political Economy of Technology: From the Auto-Industrial to the Information Age
POL 2318H	Public Policy: Theories and Approaches (core)
POL 2319H	Public Policy: Applications (core)
POL 2335H	Business and Politics: Power in a Global World
POL 2364H	Urban Policy and Policymaking
POL 2376H, Y	Topics in Public Policy
HAD 5765H	Case Studies in Health Policy

Methods and Research Seminars

POL 2503H	Thinking Through Research Design
POL 2504H	Statistics for Political Scientists
POL 2505H	Qualitative Methods in Political Research
POL 2519H	Quantitative Methods and Data Analysis
POL 2578H	Topics in Methods
POL 2810Y	MA Research Seminar I
POL 2811Y	MA Research Seminar II
POL 2812Y	PhD Dissertation Proposal Seminar (Credit/No Credit)

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

Psychological Clinical Science

Psychological Clinical Science: Introduction

Faculty Affiliation

University of Toronto Scarborough (UTSC)

Degree Programs

Counselling and Clinical Psychology

MA and 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 Specializations

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

- [Addiction Studies](#)
 - Counselling and Clinical Psychology (OISE and UTSC), MA, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Counselling and Clinical Psychology (OISE), MA, PhD
- [Community Development](#)
 - Counselling and Clinical Psychology (OISE), MA, PhD
- [Environmental Studies](#)
 - Counselling and Clinical Psychology (OISE), MA, PhD
- [Indigenous Health](#)
 - Counselling and Clinical Psychology (OISE), MA, PhD
- [Sexual Diversity Studies](#)
 - Counselling and Clinical Psychology (OISE), MA, PhD
- [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 leading to the MA and PhD degrees.

Contact and Address

Web: www.utoronto.ca/psych/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

Psychological Clinical Science: Graduate Faculty

Full Members

Bagby, Michael - BA, MA, PhD, PhD
 Best, Michael William - BA, MSc
 Goghari, Vina - BA, MA, PhD (**Graduate Chair and Director of Clinical Training**)
 Ruocco, Anthony Charles - BS, MSc, PhD
 Segal, Zindel - BA, MA, PhD
 Zakzanis, Konstantine - BA, MA, PhD

Associate Members

Agid, Ofer - MD
 Andersen, Judith - BSc, MA, PhD
 Black, Sandra - BSc, MD
 Bury, Alison - PhD
 Carlson, Erika Nicole - BS, MA, MA, PhD
 Cohn, Melanie - BA, MA, PhD
 Cooper, Andrew Astley - BSc, MA, PhD
 Cunningham, William - BA, MPH, MS, MA, PhD
 Daskalakis, Jeff - MD
 Dere, Jessica - BA, MPsy, PhD
 Edelstein, Kim - PhD
 Erb, Suzanne - BSc, MA, PhD
 Farb, Norman - BA, MA, PhD
 Fitzgerald, Nicola - BSc, AM, PhD
 Ford, Brett Quaid - MA, PhD
 Fournier, Marc - BA, PhD
 Foussias, George - BSc, MSc, DrMed, PhD
 Fuss, Samantha - BA, MA, PhD
 Gerritsen, Cory - BSc, MA, PhD
 Goldstein, Benjamin - MD
 Green, Robin - PhD
 Hendershot, Christian - PhD
 Hutcherson, Cendri Anne Claire - BA, PhD
 Inzlicht, Michael - BSc, MSc, PhD
 Irving, Julie - BA, MA, PhD
 Ito Lee, Rutsuko - BA, PhD
 Kidd, Sean - PhD
 Lee, Andy C.H. - BA, PhD
 Ng, Longena - BS, MA, PhD
 Penney, Stephanie - BA, MA, DPhil
 Quilty, Lena - BSc, PhD
 Rabin, Jenny - PhD
 Rashid, Tayyab - DPhil
 Rector, Neil - MA, MA
 Remington, Gary - MD, PhD
 Ruttan, Lesley Ann - BSc, MA, PhD

Sabiston, Catherine - BS, MA, PhD
 Schmuckler, Mark - BA, PhD
 Shammi, Prathiba - MA, MA, PhD
 Sharples, Amanda - BA, MA
 Tarshis, Elizabeth - BA, MA, EdD

Psychological Clinical Science: Counselling and Clinical Psychology MA; Field: Clinical Psychology

Master of Arts

Program Description

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 and cognitive neuroscience, psychological assessment and clinical neuropsychology, psychopathology, personality, and mindfulness- and acceptance-based psychotherapies.

The field in Clinical Psychology adheres to a generalist model of training, with a primary focus on adults. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance knowledge of the etiology and assessment and treatment of mental disorders. Instruction is provided in psychopathology, assessment, and intervention, and students are trained to practise with a variety of adult populations. The field also boasts strength in neuropsychology.

The full-time, two-year MA program is designed for applicants interested in working as researchers or practitioners in a variety of psychological and academic 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.
- A curriculum vitae.
- Completion of the Psychological Clinical Science MA, PhD Program Faculty Selection Form.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- **Coursework.** The Clinical Psychology field for the MA in Counselling and Clinical Psychology requires **5.0 full-course equivalents (FCEs)**, including an ethics course, practicum-based courses, a clinical practicum, and a thesis.
 - 4.5 FCEs as follows:
 - **Year 1:** CPS 1601H *Psychopathology* (0.5 FCE); CPS 1701H *Psychological Assessment I* (0.5 FCE); CPS 1702H *Psychological Assessment II* (0.5 FCE); CPS 1801H *Psychotherapy* (0.5 FCE); and CPS 1901H *Ethics* (0.5 FCE).
 - **Year 2:** CPS 1101H *Clinical Research Design* (0.5 FCE); CPS 1102H *Statistical Techniques I* (0.5 FCE); CPS 1802H *Applied Interventions in Clinical Psychology* (0.5 FCE); CPS 1803H *Practicum in Psychological Interventions* (0.5 FCE).
 - 0.5 FCE: Students must complete a clinical practicum at a pre-approved placement site in the final Summer of the program (CPS 2999H *Summer Practicum*).
- **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

Psychological Clinical Science: Counselling and Clinical Psychology PhD; Field: Clinical Psychology

Doctor of Philosophy

Program Description

The field in Clinical Psychology is offered primarily by the Graduate Department of Psychological Clinical Science at UTSC. Clinical Psychology adheres to a Clinical Science model of training and the primary and overriding objective of graduate training 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 and cognitive neuroscience, psychological assessment and clinical neuropsychology, psychopathology, personality, and mindfulness- and acceptance-based psychotherapies.

The field in Clinical Psychology adheres to a generalist model of training, with a primary focus on adults. A unifying theme of faculty research in Clinical Psychology at UTSC is to advance knowledge of the etiology and assessment and treatment of mental disorders. Instruction is provided in psychopathology, assessment, and intervention, and students are trained to practise with a variety of adult populations. The field also boasts strength in neuropsychology.

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 and clinical careers as clinical scientists in university and medical and psychological settings.

The field 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 in Clinical Psychology (or its equivalent) from a recognized university, with a minimum A- average and excellent research performance.
- Competitive scores on General and Subject (Psychology) tests of the Graduate Record Examinations (GRE).
- Two academic letters of reference.
- A personal statement.
- A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

- The PhD program requires **5.5 full-course equivalents (FCEs)** including coursework, three clinical placements, plus a comprehensive examination, thesis proposal, thesis, and thesis defence:
 - 3.5 FCEs in coursework, normally completed by the end of Year 3 (CPS 1103H, CPS 1201H, CPS 1301H, CPS 1401H, CPS 2901H, CPS 2902H, CPS 3901H).
 - 2.0 FCEs in clinical work:

- 1.0 FCE in two separate part-time clinical placements during Years 1 and 2 (CPS 3999H and CPS 4999H).
- 1.0 FCE in a one-year, full-time clinical internship at a Canadian Psychological Association- or American Psychological Association-accredited clinical setting (or equivalent), which normally takes place during Year 5 (CPS 5999Y). Eligibility for the clinical internship will be assessed by the Director of Clinical Training (DCT) prior to Year 4 of the program.

- The **comprehensive examination** requirement consists of two mandatory components:
 - An oral examination focused on clinical expertise (normally completed in the Fall session of Year 2); and
 - A research-focused grant proposal (normally completed in the Fall session of Year 2).
 - A pass on both components is required for a student to continue on to PhD candidacy. Students who fail the oral exam will have the opportunity to retake the exam. Students who fail the grant proposal will have the opportunity to revise and resubmit. Students who fail either or both component(s) on the second attempt should consult the School of Graduate Studies' [Academic Appeals Policy](#). If after the appeals process and second attempts at either or both component(s) result in a failure, the student will no longer be eligible to continue in the PhD program. Guidelines on the comprehensive requirement can be found in the PCS Graduate Handbook.
- **Thesis proposal**, normally approved prior to the start of Year 3 of the program.
- **Completed thesis**.
- Successful **defence of the thesis** at the Final Oral Examination.
- For students interested in acquiring additional clinical hours, the PhD program provides the following optional courses: CPS 6999H and CPS 7999H. Please note that optional courses for the PhD must be approved by the faculty supervisor, the DCT, and the Graduate Chair prior to course enrolment.
- Supervisors will have annual meetings with students to assess academic progress and to develop plans of study. The DCT will also hold formal annual meetings with students to assess clinical and professional progress.
- The program length is five years, which includes a pre-doctoral internship.

Program Length

5 years

Time Limit

6 years

Psychological Clinical Science: Counselling and Clinical Psychology MA, PhD; Field: Clinical Psychology Courses

CPS 1101H	Clinical Research Design (exclusion: APD 1263H Seminar in Research Methods for MA Students)
CPS 1102H	Statistical Techniques I (exclusion: JOI 1287H Introduction to Applied Statistics)
CPS 1103H	Statistical Techniques II (exclusion: JOI 1288H Intermediate Statistics and Research Design)
CPS 1201H	Neurobiological Bases of Behaviour
CPS 1209H	Clinical Neuropsychology
CPS 1301H	Cognitive-Affective Bases of Behaviour
CPS 1401H	Social and Interpersonal Bases of Behaviour
CPS 1501H	Personality
CPS 1601H	Psychopathology (exclusion: APD 3260H Psychodiagnostic Systems)
CPS 1701H	Psychological Assessment I (exclusion: APD 3224H Individual Cognitive and Personality Assessment)
CPS 1702H	Psychological Assessment II
CPS 1801H	Psychotherapy (exclusion: APD 1202Y Theories and Techniques of Counselling and Psychotherapy)
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 1810H	Advanced Psychotherapy
CPS 1901H	Ethics (exclusion: APD 1219H Ethical Issues in Professional Practice in Psychology and Psychotherapy)
CPS 2901H	Practicum in Clinical Supervision
CPS 2902H	Quality Assurance and Consultation
CPS 2999H	Summer Practicum
CPS 3801H	Multi-Person Therapies (exclusions: APD 1228H Individual and Group Psychotherapy: Family and Couples Counselling, APD 1260H Family Therapy, APD 1261H Group Work in Counselling)
CPS 3901H	The Historical and Scientific Foundations of 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 5001H	Directed Readings
CPS 5002H	Directed Readings
CPS 5999Y	Internship (exclusion: APD 3268Y PhD Internship)
CPS 6999H	Clinical Placement III
CPS 7999H	Clinical Placement IV

APHD: Counselling and Clinical Psychology MA; Field: Clinical and Counselling Psychology

Master of Arts

Overview

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

- Clinical and Counselling Psychology, offered primarily by OISE
- Clinical Psychology, offered primarily by UTSC

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 Clinical Psychology field on assessment and the treatment of psychopathology in adults.

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

Program Description

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, Clinical and Counselling Psychology field.

The MA is taken on a full-time or part-time basis. However, students in the part-time option 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

- **Coursework.** Students must complete a total of **4.5 FCEs** as follows:
 - APD 1203Y+ *Practicum I: Interventions in Counselling Psychology and Psychotherapy* (1.0 FCE) (500 hours of practicum). MA students will attend a minimum of three colloquium presentations during their program, which partially fulfills the course requirements for APD 1203Y+.
 - 0.5 elective FCE.
 - APD 1208Y+ *Cognitive and Personality Theory and Assessment* (1.0 FCE).
 - APD 1219H *Ethical Issues in Professional Practice in Psychology and Psychotherapy* (0.5 FCE).
 - APD 1228H *Individual and Group Psychotherapy: Families and Couples Counselling* (0.5 FCE) **or** APD 1261H *Group Work in Counselling and Psychotherapy* (0.5 FCE) (or an equivalent course).
 - APD 1263H *Research Methods for Clinical and Counselling Psychology* (0.5 FCE) (RM).
 - JOI 1288H *Intermediate Statistics and Research Design* (RM) (0.5 FCE).
- **Master's thesis.**
- **Full-time option:** Full-time, on-campus study is required from September to April, which represents the Fall and Winter sessions. 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 the 2021-22 academic year, admissions to the part-time option have been administratively suspended):** 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. Once they have begun their last required course, they must register annually and pay the part-time fees until all degree requirements have been completed. 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

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

APHD: Counselling and Clinical Psychology PhD; Field: Clinical and Counselling Psychology

Doctor of Philosophy

Overview

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

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

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 Clinical Psychology field on assessment and the treatment of psychopathology in adults.

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

Program Description

The principal aim of the **PhD 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 program in Clinical and Counselling Psychology at OISE was accredited by the Canadian Psychological Association (CPA) in 2015-2016 for a six-year term.

For the 2021-22 academic year, admissions to the flexible-time PhD option have been administratively suspended.

PhD Program

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), with a standing equivalent to a University of Toronto A- or better in the final year.
- A University of Toronto MA degree in Clinical and Counselling Psychology with a grade of A- or better, or its equivalent.

Program Requirements

- **Coursework.** Students must complete a minimum of **5.5 FCEs** as follows:
 - 2.5 FCEs in Counselling and Psychotherapy:
 - APD 3215H *Advanced Psychotherapy Seminar*,
 - APD 3217Y+ *Advanced Practicum in Clinical and Counselling Psychology* (Credit/No Credit; 600-hour practicum); and APD 3268Y *Internship in Clinical and Counselling Psychology* (1,600-hour internship — arrangements must be made in consultation with the Director of Clinical Training). MA students will attend a minimum of three colloquium presentations during their program, which partially fulfills the course requirements for APD 3268Y.
 - 1.0 FCE in Psychology Measurement/Assessment and Diagnosis:
 - APD 3225H *Assessment and Diagnosis of Personality and Psychopathology*; and
 - APD 3260H *Psychodiagnostic Systems*.

- 0.5 FCE in Supervision and Consultation:
 - APD 3261H+ *Clinical Supervision and Consultation Practicum*.
- 1.0 FCE in Advanced Research Methods:
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)*.
 - An advanced-level statistics course (in consultation with supervisors). Courses can be drawn from those offered at OISE or other Faculties with the permission of the instructor.
- 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 and Clinical Psychology faculty. The content of such dissertation research may address theoretical issues applicable to clinical and 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 clinical and counselling psychology.
- Students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

5 years

Time Limit

6 years

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

PhD Program (Flexible-Time)

For the 2021-22 academic year, admissions to the flexible-time PhD option have been administratively suspended.

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), with a standing equivalent to a University of Toronto A- or better in the final year.

- A University of Toronto MA degree in Clinical and Counselling Psychology with a grade of A- or better, or its equivalent.

Program Requirements

- **Coursework.** Students must complete a minimum of **5.5 FCEs** as follows:
 - 2.5 FCEs in Counselling and Psychotherapy:
 - APD 3215H *Advanced Psychotherapy Seminar*;
 - APD 3217Y+ *Advanced Practicum in Clinical and Counselling Psychology* (Credit/No Credit; 600-hour practicum); and APD 3268Y *Internship in Clinical and Counselling Psychology* (1,600-hour internship — arrangements must be made in consultation with the Director of Clinical Training). PhD students will attend a minimum of six colloquium presentations during their program, which partially fulfills the course requirements for APD 3268Y.
 - 1.0 FCE in Psychology Measurement/Assessment and Diagnosis:
 - APD 3225H *Assessment and Diagnosis of Personality and Psychopathology*; and
 - APD 3260H *Psychodiagnostic Systems*.
 - 0.5 FCE in Supervision and Consultation:
 - APD 3261H+ *Clinical Supervision and Consultation Practicum*.
 - 1.0 FCE in Advanced Research Methods:
 - APD 3202H *A Foundation of Program Evaluation in Social Sciences (RM)*.
 - An advanced-level statistics course (in consultation with supervisors). Courses can be drawn from those offered at OISE or other Faculties with the permission of the instructor.
 - 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 and Clinical Psychology faculty. The content of such dissertation research may address theoretical issues applicable to clinical and 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 clinical and counselling psychology.
- Students must register continuously until all degree requirements have been fulfilled. They must register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.

Program Length

6 years

Time Limit

8 years

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

APHD: Counselling and Clinical Psychology MA, PhD; Field: Clinical and Counselling Psychology Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

APD 1202Y	Theories and Techniques of Counselling and Psychotherapy
APD 1203Y+	Practicum I: Interventions in Counselling Psychology and Psychotherapy
APD 1208Y+	Cognitive and Personality Theory and Assessment
APD 1219H	Ethical Issues in Professional Practice in Psychology and Psychotherapy
APD 1228H	Individual and Group Psychotherapy: Families and Couples Counselling
APD 1260H	Family Therapy (exclusion: APD 1261H)
APD 1261H	Group Work in Counselling and Psychotherapy
APD 1263H	Research Methods for Clinical and Counselling Psychology (RM)
APD 1267H	Emotion-Focused Therapy (co-requisite: APD 1202Y; exclusion: APD 5004H)
APD 3202H	A Foundation of Program Evaluation in Social Sciences (RM)
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 (Credit/No Credit)
APD 3225H	Assessment and Diagnosis of Personality and Psychopathology
APD 3260H	Psychodiagnostic Systems
APD 3261H+	Clinical Supervision and Consultation Practicum (pre- or co-requisite: APD 3217Y+)
APD 3268Y	Internship in Clinical and Counselling Psychology
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
APD 6000H	Special Topics in Applied Psychology and Human Development: Doctoral Level
JOI 1287H	Introduction to Applied Statistics (RM)
JOI 1288H	Intermediate Statistics and Research Design (RM)
JOI 3048H	Intermediate Statistics in Educational Research: Multiple Regression Analysis (RM)

Individual Reading and Research Courses

APD 2252H	Individual Reading and Research in Human Development and Applied Psychology: Master's Level
APD 3252H	Individual Reading and Research in Human Development and Applied Psychology: Doctoral Level

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

Psychology

Psychology: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Psychology

MA and PhD

Collaborative Specializations

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

- [Addiction Studies](#)
 - Psychology, MA, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Psychology, MA, PhD
- [Human Development](#) (admissions have been administratively suspended)
 - Psychology, PhD
- [Neuroscience](#)
 - Psychology, MA, PhD
- [Psychology and Engineering](#)
 - Psychology, MA, PhD
- [Sexual Diversity Studies](#)
 - Psychology, MA, PhD
- [Women's Health](#)
 - Psychology, MA, PhD

Overview

Graduate training in psychology stresses training in general experimental psychology. Areas of specialization include the following:

- Behavioural Neuroscience
- Perception, Cognition, and Cognitive Neuroscience
- Developmental
- Social and Personality.

Contact and Address

Web: www.psych.utoronto.ca
 Email: grad@psych.utoronto.ca
 Telephone: (416) 978-3404

Department of Psychology Graduate Studies
 University of Toronto
 Sidney Smith Hall, 100 St. George Street, Room 4034
 Toronto, Ontario M5S 3G3
 Canada

Psychology: Graduate Faculty

Full Members

Addis, Donna Rose - PhD
 Andersen, Judith - BSc, MA, PhD
 Anderson, Nicole - BA, MA, PhD (**Graduate Director**)
 Bagby, Michael - BA, MA, PhD, PhD
 Barese, Morgan - BA, PhD
 Bernhardt-Walther, Dirk - BSc, MPH, PhD
 Buchsbaum, Daphna - AB, MA, MSc, PhD
 Campos, Jennifer - BA, PhD
 Cant, Jonathan - BA, MS, MedScD
 Carlson, Erika Nicole - BS, MA, MA, PhD
 Chambers, Craig - BA, MA, MA, PhD
 Chasteen, Alison - BA, PhD (**Graduate Chair**)
 Chung, Joanne Mee Hae - BA, BA, MA, PhD
 Cirelli, Laura - BA, PhD
 Cohn, Melanie - BA, MA, PhD
 Corbit, Laura - 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
 Dion, Karen - BA, PhD
 Duncan, Katherine - BS, PhD
 Einstein, Gillian - AB, PhD
 Erb, Suzanne - BSc, MA, PhD
 Farb, Norman - BA, MA, PhD
 Ferber, Susanne - MPsy, PhD
 Finn, Amy - BA, PhD
 Ford, Brett Quaid - MA, PhD
 Fournier, Marc - BA, PhD
 Gerlai, Robert - MSc, PhD
 Gilboa, Asaf - BA, MA, PhD
 Goghari, Vina - BA, MA, PhD
 Grady, Cheryl - BA, MA, PhD
 Haley, David - BA, MA, PhD
 Helwig, Charles - BA, PhD
 Hendershot, Christian - PhD
 Herrmann, Bjorn - PhD
 Holmes, Melissa - BA, MA, PhD
 Hutcherson, Cendri Anne Claire - BA, PhD
 Impett, Emily - BS, MS, PhD (**Associate Graduate Director**)
 Inzlicht, Michael - BSc, MSc, PhD
 Ito Lee, Rutsuko - BA, PhD
 Johnson, Elizabeth - BA, MA, PhD
 Joordens, Steve - BA, MA, PhD
 Kim, Junchul - BSc, MSc, PhD
 Latham, Gary - BA, MS, PhD
 Lee, Andy C.H. - BA, PhD
 Leonardelli, Geoffrey - BA, MA, PhD
 Lockwood, Penelope - BA, MA, PhD
 Mabbott, Donald - PhD
 MacDonald, Geoffrey - BA, PhD
 MacDonald, Suzanne - PhD
 Mack, Meg Schlichting - BA, PhD
 Malti, Tina - MA, MA, PhD, PhD
 Martin, Loren - BSc, MSc, PhD
 McGowan, Patrick - BSc, MA, PhD

Meltzer, Jed - BSc, PhD
 Monks, Ashley - BSc, MA, PhD
 Moscovitch, Morris - BSc, MA, PhD, Dr. Max and Gianna
 Glassman Chair in Neuropsychology
 Neel, Rebecca - BA, MA, PhD
 Niemeier, Matthias - MA, PhD
 Olsen, Rosanna - BS, PhD
 Page-Gould, Elizabeth - BS, PhD, CRC
 Peterson, Jordan - BA, BA, PhD
 Pichora-Fuller, Margaret Kathleen - AB, MS, DPhil
 Plaks, Jason - BA, MA, MPH, PhD
 Pratt, Jay - BA, MS, PhD
 Ralph, Martin - BSc, PhD
 Ronfard, Samuel - BA, MEd, MSc(T), EdD
 Rule, Nicholas - AB, MS, PhD, CRC
 Ruocco, Anthony Charles - BS, MSc, PhD
 Schellenberg, Glenn - BSc, PhD
 Schimmack, Ulrich - BA, MA, DPhil
 Schmuckler, Mark - BA, PhD
 Schneider, Bruce - BA, PhD
 Sekuler, Allison - BA, PhD
 Smith, Marylou - BSc, MSc, PhD
 Sommerville, Jessica - PhD
 Starmans, Christina - BA, MPH, MSc, PhD
 Tafarodi, Romin - BA, PhD
 Takehara, Kaori - BSc, MSc, PhD
 Taylor, Margot - BA, MA, PhD
 Troyer, Angela - BA, MA, PhD
 VanderLaan, Doug - BA, MSc, PhD
 Vartanian, Oshin - BSc, PhD
 Welsh, Timothy - BPHE, MSc, PhD
 Zakzanis, Konstantine - BA, MA, PhD
 Zovkic, Iva - BA, MA, PhD

Members Emeriti

Bors, Douglas - BA, MA, PhD
 Craik, Fergus - BSc, PhD
 Freedman, Jonathan - AB, PhD
 Grusec, Joan - BA, PhD
 Hasher, Lynn - AB, PhD
 Herman, C. Peter - BA, PhD
 Kennedy, John - BSc, MSc, PhD
 Lockhart, Robert - BA, MA, PhD
 Polivy, Janet - BS, MA, PhD
 Reingold, Eyal - BA, MA, PhD
 Rovet, Joanne - BSc, PhD
 Shettleworth, Sara - BA, MA, PhD
 Stuss, Donald - BPhil, BA, MA, PhD
 Trehub, Sandra - BComm, MA, PhD
 Tulving, Endel - BA, MA, PhD
 Walters, Gary - BA, PhD

Associate Members

Lai, Meng-Chuan - MD, PhD
 Widjaja, Elysa - MSc, MPH, MBBS

Psychology: Psychology MA

Master of Arts

Program Description

The MA program is designed to provide students with rigorous scientific training in experimental psychology. The program is one year in duration, during which time students obtain instruction in statistics and research design, and carry out a research project that culminates in a written thesis and oral examination. Students admitted to the MA program are expected to continue to the PhD program.

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 adequate research performance.
- It is assumed that all students entering the MA 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 **2.0 FCEs** as follows:
 - PSY 1000H *Directed Studies* to prepare for the MA thesis research (0.5 FCE)
 - PSY 2001H *Design of Experiments I*, experimental design and statistics (0.5 FCE)
 - two half-course Psychology electives (1.0 FCE total).
- **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

Psychology: Psychology PhD

Doctor of Philosophy

Program Description

The principal aim of the PhD program is to equip students with the skills to carry out advanced research within experimental psychology, and to become independent research scientists. Students work closely with a faculty adviser to develop and conduct a specialized (often multidisciplinary) program of research that ultimately culminates in a written dissertation and final oral examination. Through additional coursework and research opportunities, students gain breadth in their knowledge base and skill set in experimental psychology. The program is designed to prepare students for careers in academia, or a variety of non-academic careers where rigorous and in-depth research training is required.

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

- Individual programs of study are planned and include continuing research training with staff members. There is no language requirement.
- PSY 3000H⁰ *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 *Professional Psychology (Credit/No Credit)*, usually taken in PhD 1.
- An advanced statistics course chosen from a list provided by the department (typically PSY 2002H *Design of Experiments II*, usually taken in PhD 1).
- Two half course Psychology electives (1.0 FCE total).
- PSY 4000H⁰ thesis proposal and oral exam (examination in the student's area of research).
- **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 a master's degree 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

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

Psychology: Psychology MA, PhD Courses

Not all courses are offered each year. For current offerings, consult with the graduate administrator.

PSY 1000H	Directed Studies
PSY 1200H	Selected Topics in Psychology
PSY 1210H	Selected Topics in Psychology
PSY 1500H	Conceptual Bases of Psychology
PSY 2001H	Design of Experiments I
PSY 2002H	Design of Experiments II
PSY 3000H ⁰	Research Project in Psychology
PSY 3001H	Professional Psychology (Credit/No Credit)
PSY 4000H ⁰	Specialization Study (Credit/No Credit)

Behavioural Neuroscience Core Courses

PSY 5101H	Mechanisms of Behaviour
PSY 5104H	Neuropsychology Advanced Courses
PSY 5110H	Advanced Topics in Behavioural Neuroscience I
PSY 5111H	Advanced Topics in Behavioural Neuroscience II
PSY 5112H	Advanced Topics in Behavioural Neuroscience III
PSY 5121H	Advanced Topics in Animal Behaviour and Motivation II
PSY 5130H	Advanced Topics in Neuropsychology I
PSY 5132H	Advanced Topics in Neuropsychology II

Perception/Cognition/Cognitive Neuroscience Core Courses

PSY 5201H	Audition
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

Developmental Psychology Core Courses

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

Social and Personality Core Courses

PSY 5402H	Personality
PSY 5403H	Social Cognition
PSY 5410H	Advanced Topics in Abnormal I
PSY 5411H	Advanced Topics in Abnormal II
PSY 5420H	Advanced Topics in Personality I
PSY 5421H	Advanced Topics in Personality II
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

Cross-Listed Courses

JLP 2450H	Psycholinguistics
JNS 1000Y	Fundamentals of Neuroscience: Systems and Behaviour
JPM 1005Y	Behavioural Pharmacology
JPX 1001Y	Parenting: Multidisciplinary Perspectives

⁰ Course that may continue over a program. The course is graded when completed, or credit is given when the course is completed.

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

Public Health Sciences

Public Health Sciences: Introduction

Faculty Affiliation

Public Health

Degree Programs

Public Health Sciences

MPH

- Fields:
 - Epidemiology;
 - Family and Community Medicine;
 - Indigenous Health;
 - Nutrition and Dietetics
 - Emphases:
 - ◇ Clinical Nutrition;
 - ◇ Public Health Nutrition
 - Occupational and Environmental Health
 - Emphases:
 - ◇ Occupational Hygiene;
 - ◇ Environmental Public Health
 - Social and Behavioural Health Sciences

MSc

- Field:
 - Biostatistics
 - Emphasis: Artificial Intelligence and Data Science

DrPH

Effective September 2021.

PhD

- Fields:
 - Biostatistics;
 - Epidemiology
 - Emphasis: Artificial Intelligence and Data Science
 - Occupational and Environmental Health;
 - Social and Behavioural Health Sciences

Bioethics

MHSc

Community Health

MScCH

- Fields:
 - Addictions and Mental Health;
 - Family and Community Medicine;
 - Health Practitioner Teacher Education;
 - Occupational Health Care;
 - Wound Prevention and Care

Collaborative Specializations

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

- [Addiction Studies](#)
 - Public Health Sciences, MPH, MSc, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Public Health Sciences, MPH, MSc, PhD
- [Bioethics](#)
 - Public Health Sciences, MPH, MSc, PhD
- [Community Development](#)
 - Public Health Sciences, MPH
- [Development Policy and Power](#)
 - Public Health Sciences, MPH
- [Environment and Health](#)
 - Community Health, MScCH
 - Public Health Sciences, MPH, PhD
- [Food Studies](#)
 - Public Health Sciences, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Public Health Sciences, MPH, MSc (thesis only), MScCH, PhD
- Health Care, Technology, and Place (admissions have closed)
 - Public Health Sciences, PhD
- [Health Services and Policy Research](#) (admissions have been suspended)
 - Public Health Sciences, PhD
- [Human Development](#)
 - Public Health Sciences, PhD
- [Indigenous Health](#)
 - Public Health Sciences, MPH, PhD
- [Neuroscience](#)
 - Bioethics, MHSc
 - Community Health, MScCH
 - Public Health Sciences, MPH, MSc, PhD
- [Public Health Policy](#)
 - Public Health Sciences, MPH, MSc, PhD
- [Resuscitation Sciences](#)
 - Community Health, MScCH
 - Public Health Sciences, MPH, MSc, PhD
- [Sexual Diversity Studies](#)
 - Public Health Sciences, MPH, MSc, PhD
- [Women and Gender Studies](#)
 - Public Health Sciences, MPH, PhD
- [Women's Health](#)
 - Public Health Sciences, MPH, PhD

Overview

The Dalla Lana School of Public Health is an internationally recognized community of scientists, teachers, students, practitioners, policy makers, and citizens creating new knowledge, educating change makers, advancing practice, and guiding the way to better, more equitable outcomes in population health and health systems . locally, nationally, and globally.

The Graduate Department of Public Health Sciences in 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, Bloomberg Faculty of Nursing, and University of Toronto Scarborough (UTSC).

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: jcb.utoronto.ca/education/mhsc.shtml
 Email: jcb.ea@utoronto.ca
 Telephone: (416) 978-1906
 Fax: (416) 978-1911

Joint Centre for Bioethics (JCB)
 University of Toronto
 Suite 754, 155 College Street
 Toronto, Ontario M5T 1P8
 Canada

Public Health Sciences: Graduate Faculty

Full Members

Awadalla, Philip - PhD
 Barwick, Melanie - BA, MA, PhD
 Baxter, Nancy - DrMed, PhD
 Birn, Anne-Emanuelle - BA, MA, DSc
 Bondy, Susan - BA, MSc, PhD
 Briollais, Laurent - BSc, MSc, PhD
 Bronskill, Susan - MSc
 Brooks, Jennifer - BSc, MS, PhD
 Brown, Adalsteinn - AB, PhD (**Dean**)
 Bull, Shelley - BMath, MMath, PhD
 Burchell, Ann - BSc, MSc, PhD
 Chaiton, Michael - DPhil
 Chiarelli, Anna Maria - BSc, MHSc, DPhil
 Cohen, Joanna - BSc, MHSc, PhD
 Colantonio, Angela - BA, BSc(OT), MHSc, PhD
 Coleman, Brenda - BA, BScN, MSc, PhD
 Copes, Ray - BA, BSc, MSc, MD
 Côté, Pierre - MSc, PhD
 Cotterchio, Michelle - BSc, MPH, MS, PhD
 Deber, Raisa - BS, MS, PhD
 Demers, Paul - BSc, MSc, PhD
 Diamond, Miriam - MSc, MSc, PhD

Du Mont, Janice Arlene - BA, MEd, EdD
 Einstein, Gillian - AB, PhD
 Escobar, Michael - BS, PhD
 Evans, Greg - PhD
 Evans, Michael - BSc, MSc, PhD
 Ferris, Lorraine - AB, MA, LLM, LLM, PhD
 Fisman, David - MPH, MD
 Forman, Lisa - SJD
 Gagnon, France - PhD (**Associate Dean, Research**)
 Gastaldo, Denise - BSN, MA, PhD
 Gesink, Dionne - BSc, MSc, DPhil (**Associate Dean, Academic Affairs**)
 Gignac, Monique - BSc, MA, PhD
 Grace, Daniel - BA, MA, DPhil
 Grunfeld, Eva - MD, PhD
 Gupta, Neeru - BM
 Guttmann, Astrid - BA, AB, MSc, MSc, MDCM
 Harris, Shelley - BSc, MSc, PhD
 Hiraki, Linda - MS, MD, ScD
 Hogg-Johnson, Sheilah - BMath, MMath, PhD
 Hung, Rayjean - MSc, DrMedVet, PhD
 Jha, Prabhat - DrMed, MD, PhD
 Knight, Julia - BSc, MSc, PhD
 Kontos, Pia - BA, MA, PhD
 Kotsopoulos, Joanne - BSc, MSc, PhD
 Krueger, Paul - BS, MHSc, MSc, PhD
 Lemmens, Trudo - LLM, DCL
 Lou, Wendy - DPhil
 MacEachen, Ellen - BA, MSc, PhD
 Mann, Robert - BA, MSc, PhD
 McGeer, Allison - BSc, MSc, MD
 McPherson, Amy - BSc, PhD
 McVey, Gail - BA, MA, PhD
 Muntaner, Carles - MHSc, MD, PhD
 Mustard, Cameron - AB, ScD
 Naylor, C. David - MD, PhD
 Nixon, Stephanie - BHSc(PT), BA, MSc, PhD
 O'Campo, Patricia - BSc, PhD
 Paterson, Andrew - BSc, MBChB
 Poland, Blake - BA, PhD
 Pullenayegum, Eleanor - BM, PhD
 Rabeneck, Linda - BSc, MPH, MD
 Rehm, Jurgen - PhD
 Renwick, Rebecca - DipOT, BA, PhD
 Rodin, Gary - BSc, MD
 Room, Robin - MA, PhD
 Rosella, Laura - BSc, MHSc, MHSc, PhD, DPhil
 Ross, Lori Elizabeth - BSc, PhD, DPhil
 Rosser, Walter - MD
 Roth, Daniel - BSc, MSc, MD
 Rush, Brian - BA, MA, PhD
 Saarela, Olli Samuli - MSS, DPhil
 Sass-Kortsak, Andrea - BSc, MHSc, PhD
 Scott, James - BSc, PhD
 Scott, Jeremy - BSc, MS, DPhil
 Shannon, Harry - BA, MSc, PhD
 Siddiqi, Arjumand - ScD
 Smith, Peter - BASc, MPH, PhD
 Smylie, Janet - MPH, MD
 Stafford, James - BS, MS, PhD
 Stewart, Suzanne - BA, MA, PhD
 Strike, Carol - BA, MSc, PhD, PhD
 Sun, Lei - BS, PhD
 Tarasuk, Valerie - BA, BEd, BASc, MSc, PhD
 Thompson, Alison - BA, MA, PhD
 To, Teresa - BSc, MSc, PhD
 Tomlinson, George - BSc, MSc, PhD
 Whitehead, Cynthia - AB, MHSc, MD, PhD
 Willan, Andrew - BEd, BA, MSc, PhD

Wiseman, Clare - BES, MSc, ScD
 Wong, Josephine - BScN, BA, MSc, PhD
 Xu, Wei - MSc, PhD
 Yoshida, Karen - BSc, BPHE, MSc, PhD

Members Emeriti

Andrews, David - BSc, MSc, PhD
 Ashley, Mary Jane - DPH, MSc, MD
 Badley, Elizabeth - BSc, MSc, PhD
 Baines, Cornelia - MSc, MSc, MD
 Calzavara, Liviana - BA, MA, PhD
 Chalin Clark, Catherine - BSN, MA, MDiv, PhD, RN
 Chipman, Mary - BSc, MA
 Coburn, David - BA, MA, PhD
 Cole, Donald - MSc, MD
 Corey, Paul - BSc, MA, PhD
 Daar, Abdallah Salim - MD
 Eakin, Joan - BA, MA, PhD
 Eyssen, Gail - BSc, MSc, MSc, PhD
 Frank, John - BSc, MSc, MD
 Holness, D. Linn - MHSc, MD
 Hsieh, John - BSc, MA, PhD
 Jackson, Suzanne - BSc, MSc, PhD
 Kelner, Merrijoy - MA, PhD
 McDonough, Peggy - BSN, BSc, MSc, PhD
 Miller, Anthony - BA, MA, MB, BChir, MD
 Millson, Margaret - BSc, MHSc, MD
 Myers, Ted - BA, MSW, MSc, PhD
 Osborn, Richard - AB, PhD
 Purdham, James - BSc, PhD
 Robertson, Ann - BSc, MSc, PhD
 Shah, Chandrakant - DipCH, MBBS
 Skinner, Harvey - BA, MA, PhD
 Wigdor, Blossom - BA, MA, PhD
 Young, Kue - DrMed, PhD

Associate Members

Abdool, Rosalind Amirah - BA, MA, PhD
 Abejirinde, Ibukun - BA, MSc, MD, PhD
 Abuelaish, Izzeldin - MPH, MBBS, MD
 Aghdassi, Ellie - BSc, PhD
 Agic, Branka - MHSc, MD, PhD
 Allen-Scott, Lisa K. - PhD
 Allison, Kenneth - BSc, MHSc, MSc, PhD
 Amberbir, Alemayehu - BSc, MPH, PhD
 Anderson, James - BA, MA, MHSA, PhD
 Baliunas, Dalia - BSc, MSc, PhD
 Batty, Helen - MEd, MD
 Benatar, Solomon - MBChB, DSc
 Bender, Jacqueline - BSc, MSc, DPhil
 Bennett-AbuAyyash, Caroline Wadad - BA, MSc, PhD
 Benoit, Anita - BS, MSc, MS, DPhil
 Bianchi, Andria Marie - BA, MA, PhD
 Binns, Malcolm - BA, MSc, PhD
 Biswas, Avi - BA, BA, PhD
 Bolotin, Shelly - BSc, MSc, MSc, PhD
 Bottoni, Daniela - BSc, MHSc
 Bozek, Paul - BASc, MEng
 Brown, Kevin - BA, MSc, PhD
 Buchan, Sarah A.W. - MSc, PhD
 Buchman, Daniel - BA, MSW, PhD
 Burke, Tracie L. - BA, BASc, MEd
 Cadell, Susan - BA, MSW, PhD
 Cairney, John - BA, MA, PhD
 Campbell, Monica - BSc, MES, PhD

Carsley, Sarah Elizabeth - BSc, MSc, PhD
 Cataldo, Fabian - MRes, MA, PhD
 Chan, Adrienne - MPH, MD
 Chatwood, Susan - BScN, MSc, MSc
 Chris, Allison - BSc, MSc, MD, MD
 Connolly, Eoin - BA, MA
 Creatore, Maria Isabella - BSc, MSc, PhD
 DeBono, Nathan - BA, MPH, PhD
 Deeks, Shelley - MHSc, MD
 DeRocher, Mary Elizabeth - BSc, MSc, MD
 Devon, Karen - BSc, MSc, MDCM
 Di Ruggiero, Erica Marie Christine - BSc, MHSc, PhD
 Dueck, Karalyn - BSN, MPH, MD
 Edge, Sara Susan - BA, MES, PhD
 Edwards, Richard - BIS, MES, DPhil
 Elton-Marshall, Tara - BA, MASc, PhD
 Ezezika, Obidimma - BSc, BSc, MA, PhD, PhD
 Finegood, Diane T. - BSChE, MSc, PhD
 Firestone, Michelle - BSc, MHSc, PhD
 Freeman, Risa - BSc, MEd, MD
 Ghavam-Rassoul, Abbas - BSc, MHSc, MD
 Giesbrecht, Norman - BA, MA, PhD
 Gladstone, Brenda - BA, PhD
 Goldin Rosenberg, Dorothy - DipP, MES, PhD
 Gournis, Effie - BSc, MPH, MSc
 Gower, Stephanie - BSc, MSc, PhD
 Gozdyra, Piotr - BA, MA
 Granek, Leeat - BA, MA, PhD
 Greco, Susan - BASc, MASc, ScD
 Greer, Amy - BSc, MSc, PhD
 Hamilton, Hayley - BA, MA, PhD
 Hart, Trevor - BA, PhD
 Heath, Anna Louise - MMath, PhD
 Henry, Blair - BSc, MTh
 Hershfield, Larry - BA, MPsy
 Hobin, Erin - BEd, BBA, MA, PhD
 Holmes, Candice - BSc, MHSc, MD
 Hu, Pingzhao - PhD
 Husbands, Winston - BA, MPH, PhD
 Jetha, Arif - BA, MSc, PhD
 Jiang, Huan - MSc, PhD
 Johnson, Ian Lindsay - BSc, MSc, MD
 Johnstone, Jennie - BSc, MD, PhD
 Juando-Prats, Clara - MSc, PhD
 Julian, James Anthony - BSc, MMath
 Kabasele, Karl - MPH, DrMed
 Kalabis, Grazyna - BSc, MSc, PhD
 Keown-Stoneman, Charles - BSc, MSc, PhD
 Kowgier, Matthew - BA, MSc, PhD
 Kroch, Abigail E. - BA, MPH, PhD
 Kudla, Irene Nadia - MHSc
 Kustra, Rafal - PhD
 Kuuire, Vincent Zubedaar - BA, MA, PhD
 Landes, Megan - BA, MSc, MD
 Landsman, Victoria - BSc, MA, PhD
 Lau, Lincoln Lee Hang - BSc, PhD
 Lay, Christine - BSc, MCISc, MD
 Lee, Robyn - BScN, SB
 Li, Ye - BSc, MS, PhD
 Lo, Christopher - MA, PhD
 Lofters, Aisha - BSc, MD, PhD
 Longo, Christopher - BA, MSc, PhD
 MacFadden, Derek - BASc, MD, ScD
 Maclaren, Kim Alexandra - BA, PhD
 Macri, Rosanna - BSc, MHSc
 Makokis, James - BSc, MHSc, MD
 Manson, Heather - BSc, MHSc, MD
 Martiniuk, Alexandra - BSc, BA, MSc, PhD
 Mashford-Pringle, Angela - BS, MA, DPhil

Mason, Robin - BA, MEd, MA, PhD
 Matheson, Flora - BA, MA, PhD
 McNally, James Dayre - BSc, MSc, MD, PhD
 Moineddin, Rahim - BSc, MSc, MSc, PhD
 Morris, Shaun - MD
 Murphy, John H - BSc, MHSc, PhD
 Neill, Deborah - BA, MA, PhD
 Nemethy, Kataryna - BSc, MSc
 Ng, Eric - BS, MPH
 Nichol, Kathryn - BScN, MHSc, PhD
 Norman, Cameron - BA, MA, PhD
 Oandasan, Ivy - BSc, MHSc, MD
 Ondrusek, Nancy - BSc, MSc, MSc, PhD
 Parthimos, Margie - BSc, MSc, PhD
 Peranson, Judith - BSc, MPH, MD
 Perez-Brumer, Amaya - AB, MPH, DPhil
 Polzer, Jessica - BA, MSc, PhD
 Prowse, Rachel J. - BSc, MSc, PhD
 Quinonez, Carlos R. - MSc, DMD, PhD
 Raboud, Janet - BMATH, MSc, PhD
 Rachlis, Beth Stephanie - BSc, MSc, PhD
 Rachlis, Michael - MSc, MD
 Rea, Elizabeth - MSc, MD
 Redditt, Vanessa - MD
 Reel, Kevin - BSc(OT)
 Richardson, Denyse - MEd, MD
 Richmond, Sarah Ann - BA, MSc, PhD
 Roerecke, Michael - MSc, PhD
 Rolston, Imara Ajani - BA, MA, PhD
 Rothman, Linda - MHSc, PhD
 Rouleau, Katherine - BSc, MHSc, MDCM
 Sanders, Elizabeth - MSc, MSc, MB, PhD
 Shankardass, Ketan - BSc, MHSc, PhD
 Sheppard, Amanda Joan - BSc, MHSc, DPhil
 Shestopaloff, Konstantin - BSc, MSc, PhD
 Sicchia, Suzanne - AB, MHSc, PhD
 Singh, Jerome - BA, LLB, MHSc, LLM, PhD
 Smith, Brendan - BSc, MSc, PhD
 Smith, Maxwell James - BA, MSc, PhD
 Sornpaisarn, Bundit - MA, MD, PhD
 Stephens, Derek - BSc, BA, MSc
 Summerbell, Richard - BSc, MSc, PhD
 Sutradhar, Rinku - BSc, MMath, PhD
 Sykes, Jenna R. - BM, MMath
 Szego, Michael - BSc, MHSc, PhD
 Thorpe, Kevin - MMath
 Thuraiatnam, Ragavan - BASc
 Timothy, Roberta - AB, AM, MEd, PhD
 Tompa, Emile - BEc, MEd, PhD
 Tritchler, David - BA, MS, ScD
 Tuite, Ashleigh - BSc, BS, MPH, MSc, MPH, MS, PhD, PhD
 Urch, Bruce - DIH, BSc, MSc, PhD
 Vachon, Mary - BS, MA, PhD
 van Lettow, Monique - BSc, MPH, PhD
 Vanderlinden, Loren - BSc, MA, PhD
 Wagner, Franklin - MHSc, MA
 Walker, Meghan Jane - BSc, MSc, PhD
 Webster, Fiona - BA, MA, PhD
 Wells, Samantha - BA, MA, PhD
 Williams, Constance - BSc, MD, PhD
 Wilson, Sarah - BSc, MSc, MD
 Wong, Thomas - BSc, MD
 Yarmoshuk, Aaron - BA, MSc, PhD
 Zakus, David - BSc, MES, MSc, PhD
 Zhu, Jodie - BSc, MSc

Public Health Sciences: Public Health Sciences MPH

Master of Public Health

Program Description

The 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. Applicants apply and may be admitted to one of the following fields:

- Epidemiology
- Family and Community Medicine
- Indigenous Health
- Nutrition and Dietetics
- Occupational and Environmental Health
- Social and Behavioural Health Sciences

The program may be taken on a full-time or part-time basis.

Field: Epidemiology

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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows.
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 1.0 FCE in research methods: CHL 5401H *Epidemiologic Methods I* and CHL 5402H *Epidemiologic Methods II*
 - 1.0 FCE in biostatistics: CHL 5201H *Biostatistics I* and CHL 5202H *Biostatistics II*
 - 1.5 FCEs in epidemiology: CHL 5405H *Health Trends and Surveillance*, CHL 5418H *Scientific Overview in Epidemiology*, and CHL 5426H *Population Perspectives for Epidemiology*
 - 0.5 FCE in public health policy: CHL 5300H *Public Health Policy*
 - minimum 1.0 FCE: practicum placement
 - elective courses.
- Full-time students normally require longer to complete the program, including time spent in the practicum placement.

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

Field: Family and Community Medicine

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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 0.5 FCE: CHL 5601H *Appraising and Applying Evidence to Assist Clinical Decision-Making*
 - 1.0 FCE: CHL 5603Y⁰ *Social, Political, and Scientific Issues in Family Medicine*
 - 0.5 FCE: CHL 5605H *Research Issues in Family Medicine/Primary Care* or an equivalent research course, subject to approval
 - 1.0 FCE: CHL 5607H *Teaching and Learning by the Health Professions: Principles and Theories* and CHL 5608H *Teaching and Learning by the Health Professions: Practical Issues and Approaches*
 - 0.5 FCE: CHL 5613H *Leading Improvement in the Quality of Health Care for Community Populations*
 - 0.5 FCE: CHL 5622H *Patient-Related Health Care and Public Policy in Canada*
 - minimum 1.0 FCE: practicum placement
 - elective courses.
- Full-time students normally require longer to complete the program, including time spent in the practicum placement.

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

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

Field: Family and Community Medicine (Advanced-Standing Option)

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.
- Completion in good standing of the public health curriculum of an accredited Canadian medical school and/or meeting the required examinable competencies of the Medical Council of Canada.

Program Requirements

- Completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 1.0 FCE core course: CHL 5603Y *Social, Political, and Scientific Issues in Family Medicine*
 - 0.5 FCE core course: CHL 5622H *Patient-Related Health Care and Public Policy in Canada*
 - 0.5 FCE core course: CHL 5624H *Historical, Ethical, and Philosophical Foundations of Public Health*
 - 0.5 FCE research methods course selected from the following list:
 - CHL 5601H *Appraising and Applying Evidence to Assist Clinical Decision-Making*
 - CHL 5605H *Research Issues in Family Medicine/Primary Care*
 - CHL 5613H *Leading Improvement in the Quality of Health Care for Community Populations*
 - CHL 5616H *Applied Survey Methods for Health Care Professionals*
 - 0.5 FCE: CHL 6013H⁰ *Required MPH Advanced Standing Practicum*
 - 1.5 FCE elective courses.

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

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

Field: Indigenous 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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 0.5 FCE: CHL 5300H *Public Health Policy*
 - 1.0 FCE in research methods: CHL 5220H and CHL 5221H or approved equivalents
 - 0.5 FCE: CHL 5520H *Indigenous Health*
 - 0.5 FCE: CHL 5521H *Indigenous Practicum Preparation*
 - 0.5 FCE: CHL 5522H *Indigenous Food Systems, Environment, and Health*
 - 0.5 FCE: CHL 5523H *Indigenous Health and Social Policy*
 - 0.5 FCE: CHL 5524H: *Indigenous Health Theory and Methods*
 - 0.5 FCE: CHL 5801H *Health Promotion 1* or CHL 5105H *Social Determinants of Health*
 - minimum 1.0 FCE: practicum placement
 - elective courses.
- Full-time students normally require longer to complete the program, including time spent in the practicum placement.

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

Field: Nutrition and Dietetics

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 and may be considered for the advanced-standing option.
- Appropriate bachelor's degree in food and nutrition (or equivalent) 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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*

- 0.5 FCE: CHL 5300H *Public Health Policy*
- 0.5 FCE in quantitative research methods: CHL 5220H *Introduction to Quantitative Research* or an approved equivalent
- 0.5 FCE: CHL 5221H *Introduction to Qualitative Research*
- 0.5 FCE: CHL 5654H *Nutrition Programs and Strategies*
- 2.5 FCEs in foundations of practice for students who have not completed dietetic practical training (dietetic internship): CHL 5650H, CHL 5651H, CHL 5652H, and CHL 5656Y
- 0.5 FCE in nutrition science
- minimum 1.0 FCE: practicum placement
- elective courses.
- Full-time students normally require longer to complete the program, including time spent in the practicum placement.

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

Field: Nutrition and Dietetics (Advanced-Standing Option)

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 and may be considered for the advanced-standing option.
- 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 the 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.
- At least one course in undergraduate statistics.

Program Requirements

- Completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: CHL 5004H *Introduction to Public Health Sciences*
 - 0.5 FCE in public health policy: CHL 5300H *Public Health Policy* or CHL 5622H *Patient-Related Health Care and Public Policy in Canada*
 - 1.0 FCE in research methods: CHL 5220H *Introduction to Quantitative Research*, or an approved equivalent, and CHL 5221H *Introduction to Qualitative Research*
 - 0.5 FCE in population or public health nutrition from the following list:

- CHL 5522H *Indigenous Food Systems, Environment, and Health*
- CHL 5653H *Community Nutrition*
- CHL 5654H *Nutrition Programs and Strategies*
- NFS 1201H *Public Health Nutrition*
- NFS 1212H *Regulation of Food, Composition, Health Claims, and Safety*
- other courses approved by the Program Director
- 0.5 FCE in nutrition science from the following list:
 - NFS 1220H *Clinical Nutrition*
 - NFS 1223H *Dietary Carbohydrate and Glycaemic Index in Health and Disease*
 - NFS 1484H *Advanced Nutrition*
 - other courses approved by the Program Director
- 0.5 FCE: CHL 6013H⁰ *Required MPH Advanced Standing Practicum*
- elective courses.

Nutrition and Dietetics Culminating Project, to be approved by the program director or course instructor.

Field: Occupational and Environmental 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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 0.5 FCE: CHL 5904H *Perspectives in Occupational and Environmental Health — Legal and Social Context*
 - 0.5 FCE: CHL 5910H *Occupational and Environmental Hygiene I*
 - 0.5 FCE: CHL 5912H *Occupational and Environmental Toxicology*
 - 0.5 FCE in physical agents: CHL 5907H *Radiological Health* **or** CHL 5914H *Physical Agents I-Noise*
 - 0.5 FCE in research methods: CHL 5220H *Introduction to Quantitative Research* **or** CHL 5401H *Epidemiologic Methods I*
 - 3.0 FCEs in one of the emphases described below.
 - up to 2.5 FCEs in approved courses related to the student's area of study
 - minimum 1.0 FCE in a practicum placement
 - elective courses.
- Full-time students may require longer to complete the program, including time spent in the practicum placement.

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

Emphases in the MPH Program

Students in the **Occupational and Environmental Health** field of study must complete an emphasis by completing **3.0 full-course equivalents (FCEs)** in the given area. The emphasis requirements will also count toward their 10.0 FCE degree program requirements.

Program Length

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

Time Limit

3 years full-time;
6 years part-time

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

Emphases in the MPH Program

Students in the **Nutrition and Dietetics** field of study may complete an emphasis by completing **1.0 full-course equivalent (FCE)** in the given area. The emphasis requirements will also count toward their 10.0 FCE degree program requirements.

Emphasis: Clinical Nutrition

- 0.5 FCE: complete a four-week Clinical Nutrition practicum in a tertiary-care clinical nutrition setting, in addition to the standard practicum requirements for the field.
- 0.5 FCE from the following list:
 - NFS 1220H *Clinical Nutrition*
 - CHL 5610H *Theory and Practice of Behaviour Change in Health Professional Settings*
- A relevant research assignment for an appropriate agency focussed on clinical nutrition as part of CHL 5656Y *Nutrition and Dietetics Culminating Project*, to be approved by the program director or course instructor.

Emphasis: Public Health Nutrition

- 0.5 FCE: complete a four-week Public Health Nutrition practicum in a regional, provincial, or federal public health agency setting, in addition to the standard practicum requirements for the field.
- 0.5 FCE: NFS 1201H *Public Health Nutrition*.
- A relevant research assignment for an appropriate agency focussed on public health nutrition as part of CHL 5656Y

Emphasis: Occupational Hygiene

- 0.5 FCE: CHL 5410H *Occupational Epidemiology*
- 0.5 FCE: CHL 5902H *Advanced Occupational Hygiene*
- 0.5 FCE: CHL 5911H *Occupational and Environmental Hygiene II*
- 0.5 FCE: CHL 5915H *Control of Occupational Hazards*
- 0.5 FCE: CHL 5917H *Concepts in Safety Management*
- 0.5 FCE: CHL 5918H *Biological Hazards in the Workplace and Community*

Emphasis: Environmental Public Health

- 0.5 FCE: CHL 5201H *Biostatistics I*
- 0.5 FCE: CHL 5413H *Public Health Sanitation*
- 0.5 FCE: CHL 5416H *Environmental Epidemiology*
- 0.5 FCE: CHL 5903H *Environmental Health*
- 0.5 FCE: CHL 5921H *Protecting the Public from Air Pollution*
- 0.5 FCE: CHL 5950H *Special Topics in Occupational and Environmental Health* or equivalent

Field: Social and Behavioural Health Sciences

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.

Program Requirements

- Completion of **10.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE core course: CHL 5004H *Introduction to Public Health Sciences*
 - 1.0 FCE: CHL 5801H *Health Promotion 1* and CHL 5803H *Health Promotion 2*
 - 0.5 FCE: CHL 5105H *Social Determinants of Health*
 - 0.5 FCE: CHL 5110H *Theory and Practice of Program Evaluation*
 - 0.5 FCE: CHL 5300H *Public Health Policy*
 - 1.5 FCEs in research methods: CHL 5401H *Epidemiologic Methods I*, CHL 5201H *Biostatistics I*, and CHL 5221H *Introduction to Qualitative Research* or approved equivalents
 - minimum 1.0 FCE: practicum placement
 - elective courses.
- Full-time students normally require longer to complete the program, including time spent in the practicum placement.

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

Public Health Sciences: Public Health Sciences MSc

Master of Science

Program Description

The 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. The program is offered in the field of Biostatistics, both full-time and part-time.

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.

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.

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 in the MSc Program

Students in the **Biostatistics (Coursework-Only)** field of study have the option to complete an emphasis by completing appropriate coursework in a given area. The emphasis requirements will also count toward their 5.0 full-course equivalent (FCE) field requirement.

Emphasis: Artificial Intelligence and Data Science

- Students must complete **1.0 FCE** from the following list:
 - CHL 5212H *Predictive Modelling in the Health Sciences*
 - CHL 5213H *Methods for Analysis of Microbiome Data*
 - CHL 5229H *Modern Biostatistics and Statistical Learning*
 - CHL 5230H *Applied Machine Learning for Health Data*
- Students must complete a practical component in the area of Artificial Intelligence and Data Science through CHL 5207Y *Laboratory in Statistical Design and Analysis*.

Public Health Sciences: Public Health Sciences PhD

Doctor of Philosophy

Program Description

The PhD program 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. Applicants apply and may be admitted to one of the following fields:

- 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.

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, and applicants must demonstrate that they are practising professionals.

Degree requirements for the flexible-time program are identical to those for the full-time PhD program. Students are required to register full-time for the first four years of their program, after which they may register part-time. A plan of study and research activities will be negotiated at initial registration, to be reviewed and updated annually.

Field: Biostatistics

PhD Program (Full-Time and Flexible-Time)

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.

Program Requirements

- Coursework.** Completion of **5.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: CHL 5005H *Public Health Research*
 - 1.0 FCE: CHL 5208Y *Advanced Laboratory in Statistical Design and Analysis*
 - 0.5 FCE: CHL 5209H *Survival Analysis I*
 - 0.5 FCE: CHL 5210H *Categorical Data Analysis*
 - 0.5 FCE: CHL 5250H+ *Special Topics in Biostatistics* (seminar)
 - 0.5 FCE: CHL 5260H^o *Doctoral Seminar Series in Biostatistics*
 - 1.0 FCE: STA 2112H and STA 2212H *Mathematical Statistics*
 - 0.5 FCE: elective course that relates to the student's area of study.
 - Students who have taken their MSc in the department may have taken some or all of these courses already. In this case, their program of study will be designed with consultation of the program director at the time of admission.
- Demonstrated proficiency in **statistics or research methods**.
- A written **qualifying examination** in biostatistics.
- A departmental defence of the **dissertation proposal**.
- Writing of a **PhD dissertation** under the supervision of an approved dissertation committee (supervisor plus two additional faculty members).
- A **departmental defence** of the dissertation prior to the SGS Final Oral Examination.
- A **final oral defence** of the dissertation before an examination committee approved by the School of Graduate Studies.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Field: Epidemiology

PhD Program (Full-Time and Flexible-Time)

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.

Program Requirements

- **Coursework.** Completion of **4.0 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: CHL 5005H *Public Health Research*
 - 1.0 FCE: CHL 5404H and CHL 5408H *Research Methods*
 - 1.0 FCE: CHL 5406H and CHL 5424H *Quantitative Methods*
 - 0.5 FCE: CHL 5423H⁰ *Doctoral Seminar in Epidemiology*
 - 0.5 FCE: CHL 5428H *Epidemiological Methods for Causal Mediation Analyses*
 - 0.5 FCE: elective courses that relate to the student's area of study.
- Demonstrated proficiency in **statistics or research methods**.
- A written **qualifying examination** in epidemiology.
- A departmental defence of the **dissertation proposal**.
- Writing of a **PhD dissertation** under the supervision of an approved dissertation committee (supervisor plus two additional faculty members).
- A **departmental defence** of the dissertation prior to the SGS Final Oral Examination.
- A **final oral defence** of the dissertation before an examination committee approved by the School of Graduate Studies.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Emphasis in the PhD Program

Students in the **Epidemiology** field of study have the option to complete an emphasis by completing appropriate coursework in a given area. The emphasis requirements will also count toward, but may exceed, the 4.0 full-course equivalent (FCE) field requirement.

Emphasis: Artificial Intelligence and Data Science

- Students must complete **1.5 FCEs** from the following list:
 - CHL 5212H *Predictive Modelling in the Health Sciences*
 - CHL 5213H *Methods for Analysis of Microbiome Data*
 - CHL 5229H *Modern Biostatistics and Statistical Learning*
 - CHL 5230H *Applied Machine Learning for Health Data*
 - CHL 5429H *Advanced Analytic Methods for Bias in Epidemiologic Studies*
 - CHL 3020H *Ethics and Artificial Intelligence for Health*
 - HAD 5306H *Introduction to Health Services Research and the Use of Health Administrative Data*
 - MHI 2012H *Introduction to Big Data for Health: Foundations and Methodologies*
 - other course(s) approved by the Program Director.

Field: Occupational and Environmental Health

PhD Program (Full-Time and Flexible-Time)

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.

Program Requirements

- **Coursework.** Completion of **3.5 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: CHL 5005H *Public Health Research*
 - 0.5 FCE in either occupational or environmental health
 - 1.0 FCE in advanced research methods (including biostatistics)
 - 0.5 FCE: doctoral seminar in occupational and environmental health
 - 1.0 FCE: elective courses that relate to the student's area of study.
- Demonstrated proficiency in **statistics or research methods**.
- A written **qualifying examination** in occupational and environmental health.
- A departmental defence of the **dissertation proposal**.
- Writing of a **PhD dissertation** under the supervision of an approved dissertation committee (supervisor plus two additional faculty members).
- A **departmental defence** of the dissertation prior to the SGS Final Oral Examination.
- A **final oral defence** of the dissertation before an examination committee approved by the School of Graduate Studies.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

Field: Social and Behavioural Health Sciences

PhD Program (Full-Time and Flexible-Time)

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.

Program Requirements

- **Coursework.** Completion of **3.5 full-course equivalents (FCEs)** as follows:
 - 0.5 FCE: CHL 5005H *Public Health Research*
 - 0.5 FCE: CHL 5101H *Social and Behavioural Theory and Health*
 - 0.5 FCE: CHL 5102H *Social and Political Forces in Health*
 - 1.0 FCE in approved research methods courses
 - 1.0 FCE: elective courses that relate to the student's area of study.
- Demonstrated proficiency in **statistics or research methods**.
- A written **qualifying examination** in social and behavioural health sciences.
- A departmental defence of the **dissertation proposal**.
- Writing of a **PhD dissertation** under the supervision of an approved dissertation committee (supervisor plus two additional faculty members).
- A **departmental defence** of the dissertation prior to the SGS Final Oral Examination.
- A **final oral defence** of the dissertation before an examination committee approved by the School of Graduate Studies.

Program Length

4 years full-time; 6 years flexible-time

Time Limit

6 years full-time; 8 years flexible-time

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

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

Public Health Sciences: Public Health Sciences DrPH

The new Doctor of Public Health program will start in September 2021.

Doctor of Public Health

Program Description

The Doctor of Public Health (DrPH) advances public health education, addressing evaluation and translation of evidence in policy and practice decision-making contexts. The doctoral professional program is based on existing areas of faculty expertise within the Dalla Lana School of Public Health (including Public Health Sciences and the Institute of Health Policy, Management and Evaluation). Additionally, the program is the first of its kind in English Canada and will further raise the profile of the public health workforce. The focus of the program is to contribute to emerging needs in public health to address increasingly complex issues. Graduates will develop skills and knowledge in four major competency areas, as defined by the Council on Education for Public Health: (1) Data & Analysis; (2) Leadership, Management, Governance; (3) Policy & Programs; and (4) Education & Workforce Development. The DrPH will allow graduates to take on advanced roles (e.g., leadership, knowledge translation) in public health policy and practice settings. The program is offered on a full-time basis.

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 relevant public health sciences or health services-related discipline such as a Master of Public Health, Master of Science (with a health-related thesis), Master of Health Administration, or Master of Health Science with an average grade equivalent to a B+ or better.
- At least five years of mid-level management experience in a relevant field or organization.
- Candidates with less than five years of relevant experience may also be considered in exceptional circumstances.
- At least two letters of reference.

Program Requirements

- **Coursework.** Completion of **6.5 full-course equivalents (FCEs)** as follows:
 - **Year 1** (3.5 FCEs):
 - 0.5 FCE: CHL 5005H *Public Health Research* (Credit/No Credit)
 - 0.5 FCE: CHL 5624H *Historical, Ethical, and Philosophical Foundations of Public Health*
 - 0.5 FCE: CHL 4001H *Contemporary Approaches to Population Health and Health Equity*
 - 0.5 FCE: one research methods course, for example:
 - ◇ HAD 5763H *Advanced Methods in Health Services Research* or

- ◊ HAD 6501H *Introduction to Methods for Health Professions Education Research*
- 0.5 FCE: CHL 4002H *Critical Appraisal and Use of Evidence*
- 0.5 FCE: CHL 4003H *Leading High-Performing Health Systems*
- 0.5 FCE: CHL 4004H *Global Health Policy*
- Applied Research Project.
- **Year 2** (2.5 FCEs):
 - 0.5 FCE: CHL 4005H *Governance and Financial Leadership*
 - 0.5 FCE: CHL 5132H *Population Health Intervention Research (PHIR)*
 - 0.5 FCE: HAD 5778H *Comparative Health Systems and Policy*
 - 1.0 FCE: two elective courses.
 - Written comprehensive examination in public health sciences.
- **Years 3 and 4** (0.5 FCE):
 - 0.5 FCE: HAD 5765H *Case Studies in Health Policy*.
- Writing of a **PhD thesis** under the supervision of an approved thesis committee (supervisor with an appointment in Public Health Sciences plus two additional faculty members).
- A **final oral defence** of the thesis before an examination committee approved by the School of Graduate Studies.

Program Length

4 years

Time Limit

6 years

Public Health Sciences: Bioethics MHSc

Master of Health Science

Program Description

The 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 Specialization in Bioethics.

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 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.

Program Requirements

- This course-based 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. The program does not include a distance-learning option.
- A major **paper** of publishable quality on a topic of the student's choice.
- Students must complete **8.5 full-course equivalents (FCEs)**, including a 1.0 FCE practicum as outlined below.
- 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 Specialization in Bioethics, except where noted.

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 3002Y *Teaching Bioethics*
- CHL 3004Y *Ethics and Health Institutions*
- CHL 3006H *Writing in Bioethics*
- CHL 3008Y⁰ *Applied Learning in Bioethics* (practicum)
- CHL 3051H *Research Ethics*
- CHL 3052H⁰ *Practical Bioethics* (capstone course)

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

Public Health Sciences: Community Health MScCH

Master of Science in Community Health

Program Description

The MScCH 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 program may be taken 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 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, Occupational Health Care, 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 full-course equivalents (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.
- 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.

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

Public Health Sciences: Public Health Sciences MPH, MSc, DrPhD, PhD, Community Health MScCH Courses

Core Courses

CHL 5004H	Introduction to Public Health Sciences
CHL 5005H	Public Health Research (Credit/No Credit)

Biostatistics

CHL 5201H	Biostatistics I
CHL 5202H	Biostatistics II
CHL 5203H	Survey Design and Social Research Methods in Public Health
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 5212H	Predictive Modelling in the Health Sciences
CHL 5213H	Methods for Analysis of Microbiome Data
CHL 5220H	Introduction to Quantitative Research
CHL 5221H	Introduction to Qualitative Research
CHL 5222H	Analysis of Correlated Data
CHL 5223H	Applied Bayesian Methods
CHL 5224H	Modern Statistical Genetics
CHL 5225H	Advanced Statistical Methods for Clinical Trials
CHL 5226H	Mathematical Foundations of Biostatistics
CHL 5227H	Introduction to Statistical Methods for Clinical Trials
CHL 5228H	Statistical Methods for Genetics and Genomics Research Seminar (Credit/No Credit)
CHL 5229H	Modern Biostatistics and Statistical Learning (prerequisite: CHL 5226H)
CHL 5230H	Applied Machine Learning for Health Data
CHL 5250H ⁺	Special Topics in Biostatistics
CHL 5260H ⁰	Doctoral Seminar Series in Biostatistics

⁺ *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.*

Epidemiology

CHL 5401H	Epidemiologic Methods I
CHL 5402H	Epidemiologic Methods II
CHL 5403H	Epidemiology of Non-Communicable Diseases
CHL 5404H	Research Methods I
CHL 5405H	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 5412H	Communicable Disease Epidemiology, Prevention, and Control
CHL 5413H	Public Health Sanitation
CHL 5416H	Environmental Epidemiology
CHL 5417H	Tobacco and Health: From Cells to Society
CHL 5418H	Scientific Overview in Epidemiology
CHL 5420H	Global Health Research
CHL 5423H ⁰	Doctoral Seminar 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 5428H	Epidemiological Methods for Causal Mediation Analyses
CHL 5429H	Advanced Analytic Methods for Bias in Epidemiologic Studies (prerequisites: at least two graduate-level epidemiology courses and at least two graduate-level biostatistics courses; or by permission of the instructor)
CHL 5430H	Fundamentals of Genetic Epidemiology
CHL 5431H	Spatial Epidemiology: Introductory Methods and Applications
CHL 5432H	Epidemiological Methods for Communicable Diseases (prerequisites: CHL 5201H, CHL 5401H, and CHL 5412H; or equivalent)
JRH 1000H	Introduction to Pharmacoepidemiology

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

Family and Community 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
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 5616H	Applied Survey Methods for Health Care Professionals
CHL 5617H	Educational Technology for Health Practitioner Education
CHL 5618H	Family Medicine and Primary Care in the Global Health Context
CHL 5619H	Faculty Development in the Health Professions (prerequisites: CHL 5607H and CHL 5608H)
CHL 5622H	Patient-Related Health Care and Public Policy in Canada
CHL 5623H	Practical Management Concepts and Cases in Leading Small Health Organizations
CHL 5624H	Historical, Ethical, and Philosophical Foundations of Public Health
CHL 5630Y	Wound Prevention and Care
CHL 5631H	Integrating Public Health and Clinical Care: The Case of TB

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

Global Health

CHL 5700H	Global Health
CHL 5701H	Doctoral Seminar, Collaborative Specialization 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

Health Promotion

CHL 5801H	Health Promotion 1
CHL 5803H	Health Promotion 2
CHL 5804H	Theories for Health Promotion and Public Health Intervention
CHL 5805H	Critical Issues in Health Promotion Practice
CHL 5806H ⁺	Health Promotion Field Research

CHL 5808H	Health-in-All-Policies: Approaches to Achieve a Healthier City
CHL 5809H	Ecological Public Health
CHL 5810H	Race, Ethnicity, and Culture in Health (REACH)
CHL 5807H	Health Communications

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

Indigenous Health

CHL 5520H	Indigenous Health
CHL 5521H	Indigenous Practicum Preparation
CHL 5522H	Indigenous Food Systems, Environment, and Health
CHL 5523H	Indigenous Health and Social Policy
CHL 5524H	Indigenous Health Theory and Methods

Nutrition and Dietetics

CHL 5650H	Foundations of Practice I
CHL 5651H	Foundations of Practice II
CHL 5652H	Foundations of Practice III
CHL 5653H	Community Nutrition
CHL 5654H	Nutrition Programs and Strategies
CHL 5655H	Nutrition Metabolism for Public Health Nutrition Professionals
CHL 5656Y	Nutrition and Dietetics Culminating Project (prerequisites: CHL 5650H, CHL 5651H, and CHL 5652H)
NFS 1201H	Public Health Nutrition
NFS 1484H	Advanced Nutrition

Occupational and Environmental Health

CHL 5902H	Advanced Occupational Hygiene
CHL 5903H	Environmental Health
CHL 5904H	Perspectives in Occupational and Environmental Health . 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	Occupational and Environmental Toxicology
CHL 5914H	Physical Agents I — Noise
CHL 5915H	Control of Occupational Hazards
CHL 5917H	Concepts in Safety Management
CHL 5918H	Biological Hazards in the Workplace and Community
CHL 5919H	Public Health Mycology
CHL 5920H ⁰	Occupational and Environmental Health Doctoral Seminar Series
CHL 5921H	Protecting the Public from Air Pollution
CHL 5950H	Special Topics in Occupational and Environmental Health

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

Public Health Sciences

JRH 5124H	Public Health Ethics
-----------	----------------------

Social and Behavioural Health Sciences

CHL 5101H	Social and Behavioural 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 5113H	Global 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 5126H	Building Community Resilience
CHL 5127H	Social Epidemiology
CHL 5128H	Intersectionality, Inequity, and Public Health
CHL 5129H	Introduction to Mixed Methods Research for Public Health
CHL 5131H	Theoretical Foundations of Qualitative Health Research
CHL 5132H	Population Health Intervention Research (PHIR)
CHL 5133H	Evaluating Quantitative Public Health Research
CHL 5134H	Institutional Ethnography
CHL 5150H	Data Collection Methods for Research and Evaluation Projects

Practica and Related Courses

CHL 5521H	Indigenous Practicum Preparation
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 6013H ⁰	Required MPH Advanced Standing 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, or credit is given when the course is 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
CHL 7002H	Directed Research

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

Doctor of Public Health Courses

Effective September 2021.

CHL 4001H	Contemporary Approaches to Population Health and Health Equity
CHL 4002H	Critical Appraisal and Use of Evidence
CHL 4003H	Leading High-Performing Health Systems
CHL 4004H	Global Health Policy
CHL 4005H	Governance and Financial Leadership
HAD 5005H	Public Health Research
HAD 5132H	Population Health Intervention Research (PHIR)
HAD 5624H	Historical, Ethical, and Philosophical Foundations of Public Health
HAD 5763H	Advanced Methods in Health Services Research
HAD 5765H	Case Studies in Health Policy
HAD 5778H	Comparative Health Systems and Policy
HAD 6501H	Introduction to Methods/Methodologies for HPER

Collaborative Specialization Courses

Addiction Studies

PAS 3700H	Multidisciplinary Aspects of Addiction Studies
PAS 3701H	Advanced Research Issues in Addictions

Bioethics

CHL 3020H	Ethics and Artificial Intelligence for Health
-----------	---

Community Development

UCS 1000H	Community Development
-----------	-----------------------

Rehabilitation Sciences

Rehabilitation Sciences: Introduction

Faculty Affiliation

Medicine

Degree Programs

Rehabilitation Science

MSc and PhD

- Fields:
 - Movement Science;
 - Occupational Science;
 - Practice Science;
 - Rehabilitation Health Services Studies;
 - Rehabilitation Technology Sciences;
 - Social and Cognitive Rehabilitation Sciences

Speech-Language Pathology

MSc and PhD

Collaborative Specializations

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

- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Rehabilitation Science, MSc, PhD
 - Speech-Language Pathology, MSc, PhD
- [Bioethics](#)
 - Rehabilitation Science, MSc, PhD
- [Biomedical Engineering](#)
 - Rehabilitation Science, MSc, PhD
- [Cardiovascular Sciences](#)
 - Rehabilitation Science, MSc, PhD
- [Global Health \(U of T Global Scholar\)](#)
 - Rehabilitation Science, MSc, PhD
- Health Care, Technology, and Place (admissions have closed)
 - Rehabilitation Science, PhD
- [Health Services and Policy Research](#)
 - Rehabilitation Science, MSc
- [Musculoskeletal Sciences](#)
 - Rehabilitation Science, MSc, PhD
- [Neuroscience](#)
 - Rehabilitation Science, MSc, PhD
 - Speech-Language Pathology, MSc, PhD
- [Resuscitation Sciences](#)
 - Rehabilitation Science, MSc, PhD
- [Women's Health](#)
 - Rehabilitation Science, MSc, PhD
- [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, interventions, and policies to prevent, reverse, or minimize impairments, enable activity, and facilitate participation.

The academic activities of students in the Rehabilitation Sciences Institute (RSI) cover the full breadth of rehabilitation sciences with over 100 RSI faculty who are distributed throughout the University of Toronto, including teaching hospitals and research institutes.

There are five areas of research in the Rehabilitation Sciences program:

- Movement science
- Occupational science
- Rehabilitation health services studies
- Rehabilitation technology sciences
- Social and cognitive rehabilitation sciences.

There are four areas of research in the Speech-Language Pathology program:

- Alternative and augmentative communication sciences
- Hearing and aural rehabilitation sciences
- Language, voice, and speech sciences
- Swallowing sciences.

Contact and Address

Web: www.rsi.utoronto.ca
 Email: rsi.admin@utoronto.ca
 Telephone: (416) 946-8582
 Fax: (416) 946-8762

Rehabilitation Sciences Institute
 University of Toronto
 Rehabilitation Sciences Building
 Room 160, 500 University Avenue
 Toronto, Ontario M5G 1V7
 Canada

Rehabilitation Sciences: Graduate Faculty

Full Members

Agur, Anne - BSc, MSc, PhD
 Biddiss, Elaine Alisa - MASC, PhD
 Black, Sandra - BSc, MD
 Bressmann, Tim - MPH, PhD
 Brooks, Dina - BSc(PT), MSc, PhD (**Coordinator of Graduate Studies**)
 Cameron, Jill - BSc, MS, PhD
 Chau, Tom - PhD
 Chen, Joyce - BSc(PT), BPHE, PhD, ScD
 Colantonio, Angela - BA, BSc(OT), MHSc, PhD

Davis, Aileen - BSc(PT), MSc, PhD
 Dawson, Deirdre - BSc, MSc, PhD
 De Nil, Luc - MSc, PhD
 Fernie, Geoffrey - BSc, PhD
 Green, Robin - PhD
 Jaglal, Susan - BSc, MSc, PhD
 Kennedy, Sidney - DPsych, MBChB, BAO
 King, Gillian - BA, MA, PhD
 Kirsh, Bonnie - BSc(OT), MEd, PhD
 Kontos, Pia - BA, MA, PhD
 Lindsay, Sally - BA, MA, PhD
 Mansfield, Avril - BSc(PT), MSc(PT), PhD
 Martino, Rosemary - BS, MA, PhD
 McGilton, Kathy - BScN, MN, PhD
 McIlroy, William - BSc, PhD
 McPherson, Amy - BSc, PhD
 Mihailidis, Alex - BASc, MAsc, PhD
 Molnar, Monika - PhD
 Mustard, Cameron - AB, ScD
 Novak, Alison - PhD
 O'Brien, Kelly - BSc(PT), BS, PhD
 Patterson, Kara - BSc, BPT, MSc, PhD
 Perry, Stephen - BS, MSc, PhD
 Popovic, Milos - Diplng, PhD
 Rappolt, Susan - BSc(OT), MSc, PhD
 Reed, Nick - BA, MSc, PhD
 Reid, Darlene - BMR(PT), PhD
 Renwick, Rebecca - DipOT, BA, PhD
 Robinson, Lawrence - BA, MD
 Rochon, Elizabeth - BA, MSc, PhD
 Roy, Eric - BSc, MPE, PhD
 Salbach, Nancy - BSc(PT), BS, MSc, PhD
 Taati, Babak - PhD
 Thomas, Scott - BSc, MSc, PhD
 van Lieshout, Pascal - MA, MA, PhD
 Woods, Nicole - BA, PhD
 Wright, Virginia - BSc, MSc, PhD
 Yoshida, Karen - BSc, BPHE, MSc, PhD
 Yunusova, Yana - MS, MA, PhD
 Zabjek, Karl - BSc, MCISc, PhD
 Zariffa, Jose - DrEng

Members Emeriti

Berg, Katherine - BPT, BSc(PT), MSc, PhD
 Cott, Cheryl - DipP, BPT, MSc, PhD
 Friedland, Judith - BA, MA, PhD
 Polatajko-Howell, Helene J. - PhD
 Verrier, Molly - DipOT, MHSc

Associate Members

Berbrayer, David - MD, BScMed
 Colella, Tracey J.F. - MSc, PhD
 Comper, Paul - BA, MA, PhD
 Craven, Beverley Catharine - MD
 Cullen, Nora - MD
 Dutta, Tilak - MEng
 Fehlings, Darcy - MD
 Goldstein, Roger - MBChB
 Guilcher, Sara - BSc, MSc, MSc(PT), PhD
 Hamdani, Yani - MA
 Hitzig, Sander - PhD
 Hunt, Anne - MSc, PhD
 Inness, Elizabeth - BSc(PT)
 Kalsi-Ryan, Sukhvinder - BSc(PT)
 Kroshus, Emily - DSc

MacKay, Crystal - MHSc
 Mori, Brenda - BSc(PT), MSc
 Munce, Sarah - BSc, MSc, PhD
 Nalder, Emily - BOTh, PhD
 Ng, Stella - BA, MA, PhD
 Novak, Christine - BSc, BSc, MS, PhD
 Rowland, Paula - BS, BS
 Shikako-Thomas, Keiko - PhD
 Smylie, Janet - MPH, MD
 Swaine, Bonnie - MSc, DSc
 Sweet, Shane - PhD, PhD
 Switzer-Mcintyre, Sharon - BSc, BPHE, PhD
 Thaut, Michael - PhD
 Zinman, Lorne - MSc, MD

Rehabilitation Sciences: Rehabilitation Science MSc

Master of Science

Program Description

The MSc program is designed for graduate students who ultimately want careers as independent scientists in health-related disciplines. It can also serve as a stepping stone on the pathway to advanced research training for students planning to pursue a PhD in Rehabilitation Science or related fields. The program is offered in the following fields: 1) Movement Science; 2) Occupational Science; 3) Practice Science; 4) Rehabilitation Health Services Studies; 5) Rehabilitation Technology Sciences; 6) Social and Cognitive Rehabilitation Sciences.

Fields:

Movement Science;
 Occupational Science;
 Rehabilitation Health Services Studies;
 Rehabilitation Technology Sciences;
 Social and Cognitive Rehabilitation Sciences

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.
- Applicants must have graduated with a minimum B+ average in senior-level courses in the final two years of a four-year degree program from a recognized university, with a strong undergraduate science background including a course in research design and/or statistics. The four-year degree may be in Occupational Therapy, Physical Therapy, Speech-Language Pathology, or a related discipline. Related disciplines include basic sciences, engineering, kinesiology, nursing, psychology, social work, sociology, and physical and health education.
- Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - **Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5.
 - **Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).
 - **U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** Students must complete **2.5 full-course equivalents (FCEs)** as follows:
 - REH 1100H *Theory and Research in Rehabilitation Science* (0.5 FCE).
 - REH 2001Y⁰ *Rehabilitation Presentations and Proceedings* (1.0 FCE; Credit/No Credit). Students are expected to attend for one year.
 - 0.5 graduate FCE in research methods.
 - 0.5 graduate FCE in an area related to the student's thesis.
 - Students may be required to take extra courses in addition to the degree requirements listed above.
- 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 option. Requirements are the same as for the full-time MSc option with the following exceptions:
 - Residency requirements (full-time, on-campus attendance) 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.
- **Reclassification (transfer).** 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 to transfer into the PhD program. The examination is normally 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);
15 sessions part-time

Time Limit

3 years full-time;
6 years part-time

⁰ *Course that may continue over a program. Credit is given when the course is completed.*

Field: Practice 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.
- Applicants must have graduated with a minimum B+ average in senior-level courses in the final two years of a four-year degree program from a recognized university, with a strong undergraduate science background including a course in research design and/or statistics. The four-year degree may be in Occupational Therapy, Physical Therapy, Speech-Language Pathology, or a related discipline. Related disciplines include basic sciences, engineering, kinesiology, nursing, psychology, social work, sociology, and physical and health education.
- Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - **Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5.
 - **Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).
 - **U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** Students must complete **3.5 full-course equivalents (FCEs)** as follows:
 - REH 1100H *Theory and Research in Rehabilitation Science* (0.5 FCE).

- REH 2001Y⁰ *Rehabilitation Presentations and Proceedings* (1.0 FCE; Credit/No Credit). Students are expected to attend for one year.
- 0.5 graduate FCE in research methods.
- REH 3301H *Knowledge Translation in Rehabilitation: Foundational Knowledge and Innovative Applications* (0.5 FCE).
- REH 3302H *Determinants of Rehabilitation Practice* (0.5 FCE).
- REH 3303H *Rehabilitation Clinical Practicum* (0.5 FCE).
- Students may be required to take extra courses in addition to the degree requirements listed above.
- 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.
- The part-time option is not available in the Practice Science field.
- Reclassification (transfer). 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 to transfer into the PhD program. The examination is normally 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

⁰ Course that may continue over a program. Credit is given when the course is completed.

Rehabilitation Sciences: Rehabilitation Science PhD; Fields:

- 1) Movement Science;
- 2) Occupational Science;
- 3) Rehabilitation Health Services Studies;
- 4) Rehabilitation Technology Sciences;
- 5) Social and Cognitive Rehabilitation Sciences

Doctor of Philosophy

Program Description

The PhD program will prepare candidates for a career in scientific research; i.e., graduates will feed the demand for rehabilitation scientists and academic faculty in Canada and the global market. Graduates will be expected to acquire autonomy in conducting research and developing an independent research program. The program is designed to

provide a broad knowledge of rehabilitation science research as well as advanced research skills and methodologies including acquisition of funding, formulation of research questions, discovery of new knowledge, data collection, analysis and interpretation, scholarly presentation, and publication and translation of knowledge for consumption by appropriate stakeholders.

The program is offered in the following fields: 1) Movement Science; 2) Occupational Science; 3) Practice Science; 4) Rehabilitation Health Services Studies; 5) Rehabilitation Technology Sciences; 6) Social and Cognitive Rehabilitation Sciences.

Applicants may enter the PhD program via one of two routes: 1) ing completion of an appropriate master's degree or 2) direct entry following completion of a BSc degree.

Fields:

- 1) Movement Science;
- 2) Occupational Science;
- 3) Rehabilitation Health Services Studies;
- 4) Rehabilitation Technology Sciences;
- 5) Social and Cognitive Rehabilitation Sciences

PhD Program

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.
- Applicants must have graduated with a minimum A– from a relevant thesis-based master's program, such as Occupational Therapy, Physical Therapy, Rehabilitation Sciences, and Speech-Language Pathology.
- Applicants must submit the following along with their application: a letter of intent, two confidential reference letters that indicate the applicant's preparation and competence to conduct research, and curriculum vitae.
- Applicants may be counselled prior to admission and provided with materials regarding potential PhD supervisors. Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - **Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5.
 - **Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).

- **U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** A minimum of **2.0 full-course equivalents (FCEs)** as follows:
 - REH 3100H *Advanced Rehabilitation Research Issues* or equivalent (0.5 FCE) if an equivalent was not taken at the master's level.
 - REH 3001Y⁰ *Advanced Rehabilitation Presentation and Proceedings* (1.0 FCE; Credit/No Credit). Attendance is expected during the first two years of the program. Students remain enrolled and are encouraged to attend until completion of the degree.
 - An advanced research methods course (0.5 FCE).
 - Students may be required to take extra courses in addition to the degree requirements listed above.
- A **comprehensive examination**, with written and oral components, to be taken in the first 18 months of the program.
- Completion and defence of a **thesis**.
- Students are encouraged to participate in student and faculty **research seminars** in addition to their regular course requirements.
- **Residence.** Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

4 years

Time Limit

6 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Direct-Entry)

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.
- 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 must submit the following along with their application: a letter of intent, two confidential reference letters that indicate the applicant's preparation and competence to conduct research, and curriculum vitae.
- Applicants may be counselled prior to admission and provided with materials regarding potential PhD supervisors. Applicants must identify a faculty member who

has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - **Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5.
 - **Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).
 - **U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** A minimum of **3.5 full-course equivalents (FCEs)** as follows:
 - REH 3100H *Advanced Rehabilitation Research Issues* or equivalent (0.5 FCE).
 - REH 3001Y⁰ *Advanced Rehabilitation Presentation and Proceedings* (1.0 FCE; Credit/No Credit). Attendance is expected during the first two years of the program. Students remain enrolled and are encouraged to attend until completion of the degree.
 - REH 1100H *Theory and Research in Rehabilitation Science* (0.5 FCE).
 - REH 1120H *Research Methods for Rehabilitation Science* (0.5 FCE).
 - REH 1130H *Theory and Research in Occupational Science* or REH 1140H *Theory and Research in Physical Therapy* (0.5 FCE).
 - An advanced research methods course (0.5 FCE).
 - Students may be required to take extra courses in addition to the degree requirements listed above.
- A **comprehensive examination**, with written and oral components, to be taken in the first 2.5 years of the program.
- Completion and defence of a **thesis**.
- Students are encouraged to participate in student and faculty **research seminars** in addition to their regular course requirements.
- **Residence.** Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

5 years

Time Limit

7 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

Rehabilitation Sciences: Rehabilitation Science PhD; Field: Practice Science

Doctor of Philosophy

Program Description

The PhD program will prepare candidates for a career in scientific research; i.e., graduates will feed the demand for rehabilitation scientists and academic faculty in Canada and the global market. Graduates will be expected to acquire autonomy in conducting research and developing an independent research program. The program is designed to provide a broad knowledge of rehabilitation science research as well as advanced research skills and methodologies including acquisition of funding, formulation of research questions, discovery of new knowledge, data collection, analysis and interpretation, scholarly presentation, and publication and translation of knowledge for consumption by appropriate stakeholders.

The program is offered in the following fields: 1) Movement Science; 2) Occupational Science; 3) Practice Science; 4) Rehabilitation Health Services Studies; 5) Rehabilitation Technology Sciences; 6) Social and Cognitive Rehabilitation Sciences.

Applicants may enter the PhD program via one of two routes:
1) ing completion of an appropriate master's degree or 2) direct entry following completion of a BSc degree.

Field: Practice Science

PhD Program

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.
- Applicants must have graduated with a minimum A- from a relevant thesis-based master's program, such as Occupational Therapy, Physical Therapy, Rehabilitation Sciences, and Speech-Language Pathology.
- Applicants must submit the following along with their application: a letter of intent, two confidential reference letters that indicate the applicant's preparation and competence to conduct research, and curriculum vitae.
- Applicants may be counselled prior to admission and provided with materials regarding potential PhD supervisors. Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected to examine a completed thesis and/or manuscripts and university transcripts.
- 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 who were 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, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - **Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - **International English Language Testing System (IELTS):** minimum score of 7.5.
 - **Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).
 - **U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** A minimum of **3.5 full-course equivalents (FCEs)** as follows:
 - REH 3100H *Advanced Rehabilitation Research Issues* or equivalent (0.5 FCE) if an equivalent was not taken at the master's level.
 - REH 3001Y⁰ *Advanced Rehabilitation Presentation and Proceedings* (1.0 FCE; Credit/No Credit). Attendance is expected during the first two years of the program. Students remain enrolled and are encouraged to attend until completion of the degree.
 - REH 3301H *Knowledge Translation in Rehabilitation: Foundational Knowledge and Innovative Applications* (0.5 FCE).
 - REH 3302H *Determinants of Rehabilitation Practice* (0.5 FCE).
 - REH 3303H *Rehabilitation Clinical Practicum* (0.5 FCE).
 - An advanced research methods course (0.5 FCE).
 - Students may be required to take extra courses in addition to the degree requirements listed above.
- A **comprehensive examination**, with written and oral components, to be taken in the first 18 months of the program.
- Completion and defence of a **thesis**.
- Students are encouraged to participate in student and faculty **research seminars** in addition to their regular course requirements.
- **Residence.** Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

4 years

Time Limit

6 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

PhD Program (Direct-Entry)

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.
- 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 must submit the following along with their application: a letter of intent, two confidential reference letters that indicate the applicant's preparation and competence to conduct research, and curriculum vitae.
- Applicants may be counselled prior to admission and provided with materials regarding potential PhD supervisors. Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE)** with the following minimum scores:
 - paper-based TOEFL: 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): 100/120 and 22/30 on the writing and speaking sections.
 - International English Language Testing System (IELTS):** minimum score of 7.5.
 - Certificate of Proficiency in English (COPE):** see [General Regulations, 4.3 English-Language Proficiency](#).
 - U of T School of Continuing Studies academic preparation:** see [General Regulations, 4.3 English-Language Proficiency](#).

Program Requirements

- Coursework.** A minimum of **5.0 full-course equivalents (FCEs)** as follows:
 - REH 3100H *Advanced Rehabilitation Research Issues* or equivalent (0.5 FCE) if an equivalent was not taken at the master's level.
 - REH 3001Y⁰ *Advanced Rehabilitation Presentation and Proceedings* (1.0 FCE; Credit/No Credit). Attendance is expected during the first two years of the program. Students remain enrolled and are encouraged to attend until completion of the degree.
 - REH 3301H *Knowledge Translation in Rehabilitation: Foundational Knowledge and Innovative Applications* (0.5 FCE).
 - REH 3302H *Determinants of Rehabilitation Practice* (0.5 FCE).
 - REH 3303H *Rehabilitation Clinical Practicum* (0.5 FCE).
 - REH 1100H *Theory and Research in Rehabilitation Science* (0.5 FCE).
 - REH 1120H *Research Methods for Rehabilitation Science* (0.5 FCE).

- REH 1130H *Theory and Research in Occupational Science* or REH 1140H *Theory and Research in Physical Therapy* (0.5 FCE).
- An advanced research methods course (0.5 FCE).
- Students may be required to take extra courses in addition to the degree requirements listed above.
- A **comprehensive examination**, with written and oral components, to be taken in the first 2.5 years of the program.
- Completion and defence of a **thesis**.
- Students are encouraged to participate in student and faculty **research seminars** in addition to their regular course requirements.
- Residence.** Students are expected to be on campus and participating full-time until all program requirements are completed.

Program Length

5 years

Time Limit

7 years

⁰ Course that may continue over a program. Credit is given when the course is completed.

Rehabilitation Sciences: Rehabilitation Science MSc, PhD Courses

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 1140H	Theory and Research in Physical Therapy
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 3140H	Disability, Embodiment, and Voice in the Rehabilitation Science Context
REH 3301H	Knowledge Translation in Rehabilitation: Foundational Knowledge and Innovative Applications
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 3600H	Synthesis Toolkit: Approaches and Methodologies

JRP 1000H	Theory and Method for Qualitative Researchers: An Introduction
-----------	--

^o Course that may continue over a program. Credit is given when the course is completed.

Rehabilitation Sciences: Speech-Language Pathology MSc

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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE):
 - paper-based TOEFL: minimum 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): minimum 100/120 and 22/30 on the writing and speaking sections
 - International English Language Testing System (IELTS): minimum score of 7.5
 - Certificate of Proficiency in English (COPE): see [General Regulations, section 4.3 English-Language Proficiency](#)
 - U of T School of Continuing Studies Academic English preparation: see [General Regulations, section 4.3 English-Language Proficiency](#).

Program Requirements

- **Coursework.** Normally, students must complete a minimum of **2.0 full-course equivalents (FCEs)** as follows:
 - At least 1.0 FCE in research design and methodology.
 - At least 1.0 FCE in the area of research interest.
 - Course requirements are determined by the student's supervisory committee.
- Participate in student and faculty **research seminars**.
- Submission of a **thesis** based on the student's research, and completion of an **oral examination** of the thesis.
- Minimum of 12 months of full-time study. Students should be aware that completion of the thesis may take longer.
- 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

Rehabilitation Sciences: Speech-Language Pathology PhD

Doctor of Philosophy

Applicants may enter the PhD program via one of two routes: 1) ing completion of an appropriate master's degree or 2) transfer from the University of Toronto MSc program.

PhD Program

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.
- Applicants must submit the following with their application: a letter of intent, two confidential reference letters that indicate the applicant's preparation and competence to conduct research, and curriculum vitae.
- Demonstrated advanced research qualifications in speech and language sciences.
- Applicants may be counselled prior to admission and provided with materials regarding potential PhD supervisors. Applicants must identify a faculty member who has agreed to serve as research supervisor. The research supervisor is expected 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 and examination was not English, must demonstrate proficiency in the English language through the successful completion of one of the following tests:
 - Test of English as a Foreign Language (TOEFL) and the Test of Written English (TWE):
 - paper-based TOEFL: minimum 600 and 5 on the TWE
 - Internet-based TOEFL (IBT): minimum 100/120 and 22/30 on the writing and speaking sections
 - International English Language Testing System (IELTS): minimum score of 7.5

Rehabilitation Sciences: Speech-Language Pathology MSc, PhD Courses

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.

- Certificate of Proficiency in English (COPE): see [General Regulations, section 4.3 English-Language Proficiency](#)
- U of T School of Continuing Studies Academic English preparation: see [General Regulations, section 4.3 English-Language Proficiency](#).
- Students who graduated from a university outside North America are strongly encouraged to contact the Coordinator of Graduate Studies before applying.
- 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 Requirements

- **Coursework.** Students must complete a minimum of **2.0 full-course equivalents (FCEs)** as follows:
 - REH 3100H *Advanced Rehabilitation Research Issues* (0.5 FCE) if an equivalent was not taken at the master's level.
 - Advanced research methods and design courses (minimum 1.0 FCE).
 - 0.5 graduate FCE related to the area of study.
 - Attendance every two weeks at the SLP Research Colloquia (0.0 FCE).
 - Course requirements are determined by the student's supervisory committee.
 - Students may be required to take extra courses in addition to the degree requirements listed above.
- Students must demonstrate evidence of adequate **knowledge in research design and statistics** or must include suitable coursework as determined by the supervisory committee.
- A **comprehensive examination**, with written and oral components, to be taken in the first 18 months of the program.
- Completion and defence of a **thesis** in a formal departmental defence, followed by the SGS Doctoral Final Oral Examination.
- Participation in student and faculty **research seminars** in addition to the regular course requirements.
- 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 transfer-from-master's

Time Limit

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

Religion

Religion: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Religion

MA and PhD

Collaborative Specializations

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

- [Bioethics](#)
 - Religion, MA, PhD
- [Book History and Print Culture](#)
 - Religion, MA, PhD
- [Diaspora and Transnational Studies](#)
 - Religion, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Religion, PhD
- [Environmental Studies](#)
 - Religion, MA, PhD
- [Ethnic and Pluralism Studies](#)
 - Religion, MA, PhD
- [Jewish Studies](#)
 - Religion, MA, PhD
- [Knowledge Media Design](#)
 - Religion, MA, PhD
- [Mediterranean Archaeology](#)
 - Religion, PhD
- [Sexual Diversity Studies](#)
 - Religion, MA, PhD
- [South Asian Studies](#)
 - Religion, MA, PhD
- [Women and Gender Studies](#)
 - Religion, MA, PhD
- [Women's Health](#)
 - Religion, MA, PhD

Overview

The Department for the Study of Religion offers **Master of Arts** and **Doctor of Philosophy** programs in the study of religion and facilitates research and publication on religion. The department consolidates the vast curricular and faculty resources that are distributed throughout the many departments and colleges of the University and enables its students to use any resource in the University which serves the study of religion.

The department conceives the academic study of religion in interdisciplinary terms and embraces humanistic, historical,

and social scientific approaches and methods. Programs of study are constructed individually to fit the specific needs and interests of each student. As a guideline for areas of strength in the department, the department is 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.

Contact and Address

Web: 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

Religion: Graduate Faculty

Full Members

Airhart, Phyllis - BA, MA, PhD
 Bendlin, Andreas - PhD
 Bergen, Doris - MA, PhD
 Black, Deborah - BA, MA, 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
 Daswani, Girish - BSc, BSc, MS, PhD
 Dhand, Arti - 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, LLM, MA, PhD, SJD
 Everett, Nicholas - BA, MA, PhD
 Fadel, Mohammad - BA, JD, PhD
 Fox, Harry - BSc, BA, MS, MA, PhD
 Franks, Paul - AB, MA, PhD
 Garrett, Frances - BA, MA, PhD
 Gibbs, Robert - BA, MA, PhD
 Goering, Joseph - BA, MA, MSL, PhD
 Goetschel, Willi - PhD
 Gooch, Paul William - BA, MA, PhD
 Goodman, Amanda - BA, MA, PhD
 Green, Kenneth - BA, MA, PhD
 Hackworth, Jason - BA, MA, MCP, PhD

Hanneder, Jurgen - PhD
 Harrak, Amir - MA, LTh, PhD
 Harris, Jennifer - BA, MA, PhD (**Director of Graduate Studies**)
 Hewitt, Marsha - BA, MA, PhD
 Kasturi, Malavika - DPhil
 Kingwell, Mark - BA, MA, MPH, DFA, PhD
 Kivimae, Juri - AM, PhD
 Klassen, Pamela - BA, MA, PhD (**Chair and Graduate Chair**)
 Kloppenborg, John - BA, MA, PhD
 Kortenaar, Neil ten - BA, MA, PhD
 Lambek, Michael - 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
 McGregor, Deborah - BSc, MES, PhD
 Meacham, Tirzah - BA, MA, PhD
 Metso, Sarianna - MA, PhD
 Meyerson, Mark - BA, PhD
 Mittermaier, Amira - MA, PhD
 Most, Andrea - BA, MA, PhD
 Moumtaz, Nada - PhD
 Mullin, Amy - BA, PhD
 Napolitano, Valentina - BSc, MPH, PhD
 Newman, Judith - PhD
 Novak, David - AB, PhD
 O'Neill, Kevin - BA, MA, PhD
 Raman, Srilata - BA, MPH, PhD
 Rao, Ajay - PhD
 Ross, Jill - BA, MA, PhD
 Ruffle, Karen - PhD
 Saleh, Walid - BA, MA, PhD
 Sandahl, Stella - MA, MA, PhD
 Scharper, Stephen - BA, MA, PhD
 Scott, J. Barton - BA, MA, PhD
 Seidman, Naomi - PhD
 Shantz, Colleen - BA, MDiv, PhD
 Sharma, Jayeeta - BA, MPH, MA, PhD
 Smith, Kyle - 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
 Vaage, Leif - BA, PhD
 Virani, Shafique - PhD

Members Emeriti

Callahan, William - AB, MA, PhD
 Davies, Alan - BA, BD, STM, PhD
 McIntire, C.T. - MA, PhD
 Northrup, Linda - BA, MA, PhD
 O'Toole, Roger - DipEd, BA, MA, PhD
 Richardson, G. Peter - BAR, BD, PhD
 Schmidt, Lawrence - BA, MA, PhD
 Stock, Brian - AB, PhD
 Vertin, Michael - BA, PhD

Associate Members

Berger, Benjamin - LLB, LLM
 Bibeau, Gilles - PhD, PhD
 Brittain, Christopher - BA, MDiv, PhD
 Bugg, Laura - DTh

Chartrand-Burke, Anthony - PhD
 Clarke, Shayne - PhD
 Derry, Ken - PhD
 Fehige, Yiftach - BSc, MTh, MPH, PhD, DTh
 Geissinger, Aisha - PhD
 Goldberg, Sol - MA, PhD
 Hampton, Alexander - PhD
 Hoff, Shannon - BA, PhD
 Irani, Ayesha - BA, MA, MSW, PhD
 Jamieson, Christine - PhD
 Kawanami, Hiroko - PhD
 Louw, Maria - PhD
 Neelis, Jason - PhD
 Nijhawan, Michael - PhD
 Nizri, Yigal - BFA
 Obrock, Luther James - BA, MA, PhD
 Raffaelli, Enrico - PhD
 Stadler, Nurit - PhD
 Talebi, Shahla - PhD
 Turner, Alicia - PhD
 Vig, Julie - MA
 White, Kevin - MA, PhD

Religion: Religion MA

Master of Arts

Program Description

The MA program may be taken on a full-time or part-time basis. The department's [Graduate Studies Handbook](#), available on the web and from the department, provides details on admissions and programs as well as the research and teaching interests of the faculty.

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 A- 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.** Students must complete **4.0 full-course equivalents (FCEs)** including:
 - RLG 2000Y *Major Research Paper* (1.0 FCE)
 - RLG 1200H *MA Method and Theory Workshop* (0.5 FCE)
 - 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

Religion: Religion PhD

Doctor of Philosophy

Program Description

From the point of admission onward, doctoral 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, provides details on admissions and programs as well as the research and teaching interests of the faculty. The PhD program is taken on a full-time basis.

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.** Students must complete a minimum of **4.0 full-course equivalents (FCEs)**, including:
 - RLG 1000Y *Method and Theory in the Study of Religion* (1.0 FCE)
 - 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 scholarship and necessary source languages, as approved by the Director of Graduate Studies. Classical and modern forms of the same language are not permitted. 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, 0.0 FCE). This seminar consists of a series of workshops 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:
 - a four-hour written examination will cover the student's area of specialization,
 - a three-hour written examination will cover at least one important cognate area, and
 - 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 present 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 in Years 1 and 2.

Program Length

4 years (some students may take longer)

Time Limit

6 years

Religion: Religion MA, PhD Courses

Not all courses are offered every year. Please consult the department's website, which lists the [courses](#) the department will offer this year as well as those cross-listed from other departments.

Religion

RLG 1000Y	Method and Theory in the Study of Religion
RLG 1200H	The MA Method and Theory Workshop
RLG 1501H	Directed Reading
RLG 1502H	Directed Reading

RLG 2000Y	Major Research Paper
RLG 2010H	Religion and Liberalism
RLG 2011H	Natural Law in Judaism and Christianity I
RLG 2015H	Comparing Religion
RLG 2016H	Radical Evil: Religious, Philosophical, and Psychological Response
RLG 2017H	Religion, Secularism, and the Public Sphere
RLG 2020H	Early Christianity, Ancient Judaism, Ancient "Magic"
RLG 2021H	Mystical Poetics and the Study of Religious Aesthetics
RLG 2022H	Religion, Mourning, and Trauma
RLG 2023H	Religion, Media, and Culture
RLG 2025H	Critical Theory of Religion
RLG 2027H	Law and Religion: Critical Conversations
RLG 2030H	Historiography of Religion
RLG 2042H	Re-Enchanting Nature: Spirituality and the New Nature Writing
RLG 2060H	Religion and Philosophy in the European Enlightenment
RLG 2061H	Why Philosophy Matters to Religious Studies
RLG 2062H	Modern Hermeneutics and Religion
RLG 2064H	Constructing Religion
RLG 2065H	Philosophical Texts in Religion
RLG 2067H	Philosophical Topics in the Study of Religion
RLG 2072H	Kant's Theory of Rel.....
RLG 2081H	Foundations in Psychodynamic Theory and Clinical Practice
RLG 2084H	Social Science Approaches to Early Christianity: Topical Investigations
RLG 2085H	Genealogies of Christianity
RLG 2086H	Fieldwork in Religious Studies
RLG 3114H	Christianity and Judaism in Colonial Context
RLG 3143H	Hebraica
RLG 3190H	Pseudepigraphy in Ancient Mediterranean Religion
RLG 3200H	The Politics of Bible Translation
RLG 3212H	Martyrdom and Christian Identity
RLG 3216H	Christianity in the Ancient Near East
RLG 3217H	Social Networks and Elective Cults in Antiquity
RLG 3228H	Social History of the Early Jesus Movement
RLG 3241H	Galatians
RLG 3242H	Christian Asceticism in Late Antiquity
RLG 3243H	The Synoptic Problem
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 3280H	Christianities of South Asia
RLG 3290H	Words and Worship in Christian Cultures
RLG 3401H	Reading Buddhist Texts I
RLG 3402H	Reading Buddhist Texts II
RLG 3413H	Burmese Religions
RLG 3414H	The Vessantarajataka
RLG 3419H	Teaching Buddhism
RLG 3454H	Readings in Tibetan Buddhism I
RLG 3460H	Sanskrit Readings
RLG 3461H	Sanskrit Readings II
RLG 3464H	History and Historiography of Buddhism

RLG 3468H	The Buddhist Canon
RLG 3470H	Buddhist Tantra
RLG 3490H	Buddhist Auto/biography
RLG 3501H	Special Topics in Islamic Studies
RLG 3516H	Islamic Law and Society
RLG 3517H	Shi'i Studies: The State of the Field
RLG 3518H	Foundations in Shi'i Studies
RLG 3519H	Islamic Intellectual Traditions
RLG 3527H	The Anthropology of Islam
RLG 3528H	Tools of the Craft: Research Fluency in Islamic Studies
RLG 3544H	Islamicate Material Cultures
RLG 3555H	The Prophetic Family in Islamic Tradition
RLG 3601H	Philo: The First Jewish Philosopher
RLG 3610H	Wisdom in Second Temple Judaism
RLG 3611H	Hebrew Literature and Religion: Midrash Aggadah
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 3653H	Jewish Exegetical Traditions in Antiquity
RLG 3655H	Readings in Jewish Literature (200 BCE–200 CE)
RLG 3700H	Debates in Ancient Indian Religion and History
RLG 3701H	Vaishnavism
RLG 3702H	Debates in Classical South Asian Religion and History
RLG 3704H	Readings in Sanskrit Literature
RLG 3710H	Newar Religion
RLG 3714H	Sacred Biography in South Asia
RLG 3717H	Renunciation and Erotica in Sanskrit Poetry
RLG 3718H	Sikhs in Early Modern India: Texts and Encounters
RLG 3722H	Approaching the Literary in South Asian Religions
RLG 3741H	The Guru — East and West
RLG 3744H	Hindu Epics
RLG 3760H	Vedanta Through the Ages
RLG 3762H	Religion and Aesthetics in South Asia
RLG 3763H	Readings in Sanskrit Philosophy
RLG 3771H	After the Śaiva Age: Regional Śaivism in the Second Millennium
RLG 3789H	Burmese Buddhist Literature
RLG 3799H	Problems and Methods in South Asian Religions
RLG 3931H	Topics in North American Religions
RLG 4001H	Directed Reading: TST Seminar
RLG 4004H	Colloquium Presentation
SRD 4444Y	Doctoral Seminar Series — Compulsory Attendance (Credit/No Credit)

Joint Courses

JPR 2051H	Fanaticism: A Political History
JPR 2058H	Postsecular Political Thought

Other Departments

Other departments and collaborative specializations (see programs listed at the beginning of this entry) offer courses that may contribute to graduate programs in the study of religion.

Visit the [department's 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

Slavic Languages and Literatures

Slavic Languages and Literatures: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Slavic Languages and Literatures

MA and PhD

- Fields:
 - Slavic Linguistics;
 - Slavic Literatures

Collaborative Specializations

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

- [Diaspora and Transnational Studies](#)
 - Slavic Languages and Literatures, MA, PhD
- [Jewish Studies](#)
 - Slavic Languages and Literatures, MA, PhD
- [Sexual Diversity 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.

The department's literature programs are especially strong in nineteenth and twentieth century literary and cultural history, modernism, avant-garde and contemporary movements, literary theory, drama, cinema, and Slavic-Jewish cultural relations.

The department's linguistics unit has particular strengths in language acquisition and pedagogy, and socio-linguistics. Students are advised to consult the list of faculty members and the description of their particular areas of expertise for more details.

Over the last decade, curricula in all the languages, literatures and cultures taught in the department have been rewritten to

mirror the dramatic social, cultural and political changes in Central, Eastern and Southern Europe. The department has developed new areas of research and expertise. Due to extensive internal cooperation and interdisciplinary focus, new common ground among disciplines has been found; the study of the interrelations of these cultures is promoted.

Contact and Address

Web: sites.utoronto.ca/slavic/graduate/grad_index.html

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

Slavic Languages and Literatures: Graduate Faculty

Full Members

Holland, Kate - MA, PhD (**Graduate Coordinator**)
Koznarsky, Taras - MA, PhD
Livak, Leonid - BA, AM, PhD
Obradovic, Dragana - MA, PhD
Orwin, Donna - PhD (**Chair**)
Smolyarova, Tatiana - BA, MA, PhD, PhD
Tarnawsky, Maxim - BA, PhD
Trojanowska, Tamara - MA, PhD

Members Emeriti

Bedford, Charles - MA, PhD
Dolezel, Lubomir - BA, PhD, FRSC
Iribarne, Louis - BA, MA, PhD
Kramer, Christina - BA, MA, PhD
Lantz, Kenneth - BA, MA, PhD
Lindheim, Ralph - BA, MA
Pavliuc, Nicolae - PhD
Ponomareff, Constantin - BA, MA, PhD
Thomson, Roger - BA, MA, DPhil

Associate Members

Jezyk, Agnieszka - PhD
Mikhailova, Julia - AB, AM, AM, DPhil
Petrov, Ana - PhD

Slavic Languages and Literatures: Slavic Languages and Literatures MA

Master of Arts

Program Description

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 option, depending on their level of preparation. Students in the one-year MA program have the option to complete the program by coursework or coursework plus research paper.

MA Program (One-Year Coursework Option)

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.
- 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.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** including:
 - SLA 1040H *Methods of Teaching Slavic Languages* (0.5 FCE)
 - Students who provide evidence of satisfactory completion of an equivalent course to SLA 1040H may be exempted from this course.
- **Language.** Proficiency in the language of the major field of study must be demonstrated during the 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 4.0 FCEs 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.
- **Residence.** Normally, students spend a year in residence when they must be on campus and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

2 sessions (typical registration sequence: F/W)

Time Limit

3 years

MA Program (One-Year Coursework-Plus-Research-Paper Option)

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.
- 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.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** including:
 - SLA 1040H *Methods of Teaching Slavic Languages* (0.5 FCE).
 - Students who provide evidence of satisfactory completion of an equivalent course to SLA 1040H may be exempted from this course.
 - Students who intend to complete the Slavic linguistics field must complete SLA 1109H *Studies in Old Church Slavonic* (0.5 FCE).
- **Language.** Proficiency in the language of the major field of study must be demonstrated during the 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 3.0 FCEs 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.
- **Research paper** written in English.
- **Residence.** Normally, students spend a year in residence when they must be on campus and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

2 sessions (typical registration sequence: F/W)

Time Limit

3 years

MA Program (Two-Year Coursework Option)

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.
- Intermediate proficiency in a Slavic language, as evidenced by two full years of language training or equivalent, is required.

Program Requirements

- **Coursework:** Students must complete **7.0 full-course equivalents (FCEs)** including:
 - SLA 1040H *Methods of Teaching Slavic Languages* (0.5 FCE)
 - Students who provide evidence of satisfactory completion of an equivalent course to SLA 1040H may be exempted from this course.
 - Students who intend to complete the Slavic linguistics field must complete SLA 1109H *Studies in Old Church Slavonic* (0.5 FCE).
- **Language.** Level of proficiency in the language of the major field of study must be established no later than the first week of the first session in the program to determine the required language courses.
- **Residence.** Normally, students spend two years in residence when they must be on campus and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 sessions (typical registration sequence: F/W/F/W)

Time Limit

3 years

Slavic Languages and Literatures: Slavic Languages and Literatures PhD

Doctor of Philosophy

Program Description

PhD students may choose to complete a program in one of two fields:

- Slavic Linguistics
- Slavic Literatures.

Field: Slavic Linguistics

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 the language of the major field of study** during the session's first week. 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 field of study and a minor field of study program.
- Complete **9.0 full-course equivalents (FCEs)** including:
 - at least 3.0 FCEs in Slavic linguistics
 - 2.0 FCEs in theoretical linguistics from cognate disciplines (e.g., linguistics, anthropology)
 - 1.0 FCE in the literature of the major field of study language is strongly advised
 - at least one course (0.5 FCE) in Slavic languages from each of the three groups: West Slavic, East Slavic, and South Slavic by the end of Year 3 (minimum 1.5 FCEs total).
 - Students may be given a course exemption up to 3.0 FCEs for work completed in the MA.
- **Minor field of study** 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
 - a cognate discipline, with departmental approval (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 of study field and written and oral comprehensive examinations in the special field. The major field of study field exam cannot be taken if students have any outstanding coursework.
- By the time of their major field of study field exam, students should have chosen their supervisor and the rest of their committee (in consultation with the supervisor).
- **Dissertation.**

- **Residence.** In Years 1 and 2, students must take courses and be on campus full-time to participate fully in the PhD program's activities.

Program Length

4 years (many students require 5 years to complete the program)

Time Limit

6 years

Field: Slavic Literatures

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 the language of the major field of study** during the session's first week. 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 SLA 1010H *Slavic Proseminar* prior to taking comprehensive examinations.
- Complete a major field of study and a minor field of study program.
- Complete **9.0 full-course equivalents (FCEs)** with at least 0.5 FCE in Slavic linguistics. Students may be given a course exemption up to 3.0 FCEs for work completed in the MA.
 - Complete SLA 1104H *Introduction to Old Church Slavonic* (0.5 FCE; Credit/No Credit) if specializing in Russian, Ukrainian, or Bosnian-Croatian-Serbian.
- **Minor field of study** 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
 - a cognate discipline, with departmental approval (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.

- Acquire a working knowledge of a **Slavic language other than their major field of study language of study** or complete at least two approved undergraduate courses in a Slavic language that is different than their major field of study language of study by the end of Year 3. A working knowledge is defined as proficiency equivalent to a second-year course. Students must also satisfy departmental requirements for their major field of study language. Students who do not major field of study in Russian most often choose it as their second Slavic language.
- 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 of study field and written and oral comprehensive examinations in the special field. The major field of study field exam cannot be taken if students have any outstanding coursework.
- By the time of their major field of study field exam, students should have chosen their supervisor and the rest of their committee (in consultation with the supervisor).
- **Dissertation.**
- **Residence.** In Years 1 and 2, students must take courses and be on campus full-time to participate fully in the PhD program's activities.

Program Length

4 years (many students require 5 years to complete the program)

Time Limit

6 years

Slavic Languages and Literatures: Slavic Languages and Literatures MA, PhD Courses

Not all courses are offered every year. Students should consult the departmental handbook for [current course offerings](#).

General Slavic

SLA 1010H	Slavic Proseminar
SLA 1039H	Kyiv-Kiev-Kijow: A City and the Text
SLA 1040H	Methods of Teaching Slavic Languages
SLA 1050H	Theatricality and Spectacle in the History of Russian Culture. From Jesters to Meyerhold.
SLA 1207H	The Imaginary Jew
SLA 1320H	Postcommunism — Postcolonialism — Postdependence: Central and Eastern European Perspectives
SLA 1330H	Literature and Science
SLA 1340H	Desires, Dreamscapes, and the Death Drive: Psychoanalysis and Literature
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
COL 5037H	Magic Prague: Question of Literary Cityscapes
JLV 5134H	Theories of the Novel
JLV 5135H	1968: The Year of Revolution and Protest
JLV 5143H	Censorship, Culture, Archive

Croatian and Serbian Literatures

SLA 1507H	Modern Croatian Bards in Performance
SLA 1517H	Modern Serbian Bards
SLA 1547H	South Slavic Folklore

Czech and Slovak Literature

SLA 1600Y	Introduction to Czech and Slovak Literatures
SLA 1602Y	Czech Style and Syntax
SLA 1604Y	History of Czech Verbal Art from the Early Stages to Baroque
SLA 1608H	On the Wave of the Avant-garde
SLA 1610H	V. Havel: Thinker, Politician, Writer

Polish Literature

SLA 1304H	Transgressions: Drama, Theatre, Performance
SLA 1308H	Critical Paradigms in Polish Culture
SLA 1312Y	Modernism and Post-Modernism in Polish Literature
SLA 1315H	Intellectual Traditions, Culture, and Literature: Trajectories in Poland

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 1218H	Pushkin
SLA 1220H	Nineteenth Century Russian Thinkers
SLA 1222Y	Russian Poetry and Poetics
SLA 1223H	Introduction to Russian Poetry and Poetics
SLA 1224H	19th-Century Russian Poetry
SLA 1225H	Russian Literature in the Age of Empire
SLA 1226H	Dostoevsky in Literary Theory and Criticism
SLA 1228H	Themes in Russian Realism
SLA 1229H	Russian Literature Between Tradition and Modernity (exclusion: SLA 1225H)
SLA 1231H	Russian Modernism
SLA 1234H	Dostoevsky
SLA 1238H	Chekhov
SLA 1239H	Vladimir Nabokov

SLA 1240H	Tolstoy
SLA 1410H	Gogol
SLA 1411H	Synthesis of Arts in the Late Russian Empire. Early Soviet Union
SLA 1900H	Russian Nineteenth-Century Poetry

Slavic Linguistics

SLA 1040H	Methods of Teaching Slavic Languages
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 1102Y	Advanced Russian Language Skills
SLA 1104H	Introduction to Old Church Slavonic (Credit/No Credit)
SLA 1109H	Studies in Old Church Slavonic
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 1406Y	Studies in Ukrainian Literary Criticism
SLA 1407H	Aspects of Literary Translation of Ukrainian

Social Justice Education

Social Justice Education: Introduction

Faculty Affiliation

Ontario Institute for Studies in Education (OISE)

Degree Programs

Social Justice Education

MA, MEd, EdD, and PhD

Collaborative Specializations

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

- [Comparative, International and Development Education](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Development Policy and Power](#)
 - Social Justice Education, MA, MEd
- [Diaspora and Transnational Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Education, Francophonies and Diversity](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Educational Policy](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Environmental Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Ethnic and Pluralism Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Indigenous Health](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Sexual Diversity Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [South Asian Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [Women and Gender Studies](#)
 - Social Justice Education, MA, MEd, EdD, PhD
- [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.

The department's graduate programs are 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 ?" 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

Admissions

Initial inquiries regarding admission to graduate studies in the Department of Social Justice Education (SJE) should be made directly to:

Web: www.oise.utoronto.ca/orss
 Email: admissions.oise@utoronto.ca
 Tel: (416) 978-4300
 Fax: (416) 323-9964

Office of the Registrar and Student Services
 Ontario Institute for Studies in Education (OISE)
 University of Toronto
 252 Bloor Street West, Room 8-225
 Toronto, Ontario M5S 1V6
 Canada

Program

Web: www.oise.utoronto.ca/sje
 Email (Admissions and Programs): oise.sjegrad@utoronto.ca
 Phone: (416) 978-0397

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

Social Justice Education: Graduate Faculty

Full Members

Bakan, Abigail - BA, MA, PhD
 Bascia, Nina - PhD
 Bisailon, Laura - BA, MA, PhD
 Boler, Megan - BA, PhD
 Cannon, Martin - MA, PhD
 Coloma, Roland Sintos - TD, BA, MA, MA, PhD

Dei, George J.S. - BA, MA, PhD
 Farmer, Diane - BA, MSS, PhD
 Georgis, Dina - PhD
 Heller, Monica - BA, MA, PhD
 McDougall, Douglas - BM, BEd, MEd, EdD
 O'Sullivan, Julia - BA, MA, PhD
 Portelli, John - MEd, PhD
 Titchkosky, Tanya - BA, MA, PhD
 Todorova, Miglena - BA, MA, PhD
 Tuck, Eve - BA, PhD
 Walcott, Rinaldo - BA, MA, PhD
 Wane, Njoki - BE, MSc, MEd, PhD (**Chair and Graduate Chair**)

Members Emeriti

Gamlin, Peter - BA, MA, PhD
 Razack, Sherene - BA, MA, PhD
 Smith, Dorothy - BSc, PhD, LLD

Associate Members

Dahya, Negin - BA, MEd, PhD
 Gorman, Rachel - BA, MA, PhD
 Hampton, Rosalind - PhD
 Kellogg, Paul - BA, MA, DrRerPol
 Lo, Marieme - BA, MA, MSc, PhD
 McGuire, Anne - AB, MA, EdD
 Murray, David - PhD
 Zoric, Terezia - BEd, BA, MA

Social Justice Education: Social Justice Education MA

Master of Arts

Program Description

The Social Justice Education (SJE) program welcomes applicants with diverse but relevant backgrounds. The MA program is a research-based degree program which can be taken 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 department's additional admission requirements stated below.
- 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.
- Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** as follows:
 - Subject to consultation with a faculty advisor, SJE 1903H *Major Concepts and Issues in Social Justice Education* (0.5 FCE) is recommended.
 - 2.5 other FCEs, of which at least 1.5 FCEs must be SJE courses.
 - Students who are registered in a collaborative specialization 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

Social Justice Education: Social Justice Education MEd

Master of Education

Program Description

The Department of Social Justice Education (SJE) welcomes applicants with diverse but relevant backgrounds. The Master of Education (MEd) program can be taken on a full-time or part-time basis.

Students may complete the MEd program by one of three options:

- Coursework Only Option
- Coursework Plus Major Research Paper (MRP) Option
- Coursework Plus Thesis Option (admissions have been administratively suspended)

Students who are accepted into the MEd program are automatically assigned to the Coursework Only Option. They can transfer to the Coursework Plus Major Research Paper Option after they begin their program and have secured an SJE faculty supervisor for the MRP or thesis.

MEd Program (Coursework Only Option)

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 requires an appropriate bachelor's degree from a recognized university, with a 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 must 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 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCES)** including:
 - Subject to consultation with a faculty advisor, SJE 1903H *Major Concepts and Issues in Social Justice Education* (0.5 FCE) is recommended.
 - At least half of the FCEs in an MEd program must be SJE courses.
 - Students who are registered in a collaborative specialization 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.

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

MEd Program (Coursework Plus Major Research Paper Option)

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 requires an appropriate bachelor's degree from a recognized university, with a 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 must 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 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCES)** including:
 - Subject to consultation with a faculty advisor, SJE 1903H *Major Concepts and Issues in Social Justice Education* (0.5 FCE) is recommended.
 - At least half of the FCEs in an MEd program must be SJE courses.
 - Students who are registered in a collaborative specialization 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.
- **Major Research Paper (MRP):** SJE 2001Y⁰ *Major Research Paper*.

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

MEd Program (Coursework Plus Thesis Option)

Admissions have been administratively suspended.

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 requires an appropriate bachelor's degree from a recognized university, with a 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 must 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 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCES)** including:
 - Subject to consultation with a faculty advisor, SJE 1903H *Major Concepts and Issues in Social Justice Education* (0.5 FCE) is recommended.
 - At least half of the FCEs in an MEd program must be SJE courses.
 - Students who are registered in a collaborative specialization 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.
- **Thesis.**

Program Length

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

Time Limit

3 years full-time;
6 years part-time

Social Justice Education: Social Justice Education MA, MEd Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [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	Advanced Topics in Environmental Justice Education
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 décolonisation
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 1932H	Decolonization, Settler Colonialism, and Antiracism (exclusion: SJE 5024H)
SJE 1933H	Participatory Action Research and Community Based Research (exclusion: SJE 5011H)
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 1970H	Applied Ethics in Higher Education
SJE 1971H	Identity and Education
SJE 1972H	Contemporary Ethical Issues in Schooling and Education
SJE 1973H	Liberalism and its Critics
SJE 1974H	Truth Commissions Reconciliation and Indian Residential Schools
SJE 1975H	Indigenous Settler Relations Issues for Teachers
SJE 1976H	Critical Media Literacy Education
SJE 1977H	Sociology of Indigenous and Alternative Approaches to Health and Healing Practices: Implications for Education
SJE 1978H	Sexual, Racial, and Gender-Based Violence Prevention in Higher Education
SJE 1979H	Race, Gender, Sexuality, and Empire in Socialist Economies and States
SJE 1982H	Women, Diversity, and the Educational System
SJE 1989H	Black Feminist Thought
SJE 1992H	Feminism and Poststructuralism in Education
SJE 1993H	Militarism and Sustainability: Concepts of Nature, State, and Society
SJE 2001Y ⁰	Major Research Paper
SJE 2030H	Disability Studies and the Human Imaginary (exclusion: SJE 5004H)
SJE 2910H	Changes in Families and Policy Consequences for Government and Education
SJE 2929H	Disability Studies . Interpretive Methods — RM (exclusion: SJE 3929H)
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 5000H	Special Topics in Social Justice Research in Education: Master's Level
JTE 1952H	Language, Culture, and Education / Langue, culture, et éducation

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

Social Justice Education: Social Justice Education EdD

Doctor of Education

Program Description

The Doctor of Education (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.

The EdD in Social Justice Education (SJE) is ideal for those with an interest in professional and/or voluntary practice in relevant field domains, where there is an interface between theory and practice and where the vision, skills, and commitment of dedicated and research-informed practitioners are pivotal to outcomes. Those interested in the degree program will be working professionals including teachers, school and community leaders, health and legal professionals, and those working, volunteering, or seeking employment in related fields in social justice education.

The Department of Social Justice Education welcomes applicants with diverse but relevant backgrounds. The EdD program can be taken on a full-time or part-time basis. Students cannot transfer between the EdD and PhD programs.

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 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 a 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 must 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **4.0 full-course equivalents (FCEs)** as follows:
 - Required half course (0.5 FCE): SJE 3997H *Practicum in Social Justice Education* (72 hours).
 - Subject to consultation with a faculty advisor, SJE 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis* (0.5 FCE) is recommended.
 - Students who have completed the recommended course SJE 3905H must take 3.0 other FCEs, of which at least 1.5 FCEs must be SJE courses.
 - Students who are registered in a collaborative specialization 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.
- **Thesis (dissertation in practice).** Students submit a thesis and defend it at a **Doctoral Final Oral Examination**. The thesis (dissertation in practice) is the culminating component of the EdD degree in Social Justice Education that shall include an identification and investigation of a problem of practice, the application of theory and research to the problem of practice, and a design for action to address the problem of practice. Specifically, the thesis (dissertation in practice) is expected to be the product of original research, designed and implemented in the form of an innovative, impactful, and potentially sustainable plan, policy, guideline, advocacy or activism model, relevant to an educational setting, broadly defined, and aimed at improving practice on a local, regional, national or international scale.
- 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. Once enrolled full-time, students must maintain continuous registration full-time and pay full-time fees 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

Social Justice Education: Social Justice Education PhD

Doctor of Philosophy

Program Description

The PhD degree program is designed to provide opportunities for advanced study, original research, and theoretical analysis. The PhD program can be taken on a full-time or flexible-time basis. The Department of Social Justice Education (SJE) welcomes applicants with diverse but relevant backgrounds.

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 areas of research. Degree requirements for the flexible-time and full-time PhD programs are the same. Flexible-time PhD students register full-time during the first four years and part-time during subsequent years of the program.

PhD Program

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.
- 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

Program Requirements

- **Coursework.** Students must complete **3.0 full-course equivalents (FCEs)** including:
 - Subject to consultation with a faculty advisor, SJE 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis* (0.5 FCE) is recommended. 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 must be taken within SJE.
 - Students who are registered in a collaborative specialization 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.
- **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.
- 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.
- 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 Year 3, and must have completed all other program requirements.
- PhD students must register continuously and pay the full-time fee until all degree requirements have been fulfilled.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD program and PhD programs.

Program Length

4 years

Time Limit

6 years

PhD Program (Flexible-Time)

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.
- 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.
 - Résumé that provides clear and complete information about the applicant's work or field experience related to their proposed studies.

- Applicants should demonstrate that they are active professionals engaged in activities relevant to their proposed program of study.

Program Requirements

- **Coursework.** Students must complete at least **3.0 full-course equivalents (FCEs)** including:
 - At least 2.0 FCEs 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 specialization.
 - Subject to consultation with a faculty advisor, SJE 3905H *Interdisciplinary Approaches to Humanities and Social Sciences: Theory and Praxis* (0.5 FCE) is recommended.
 - Students must consult with their faculty advisor before enrolling in any out-of-department course for which they wish to receive SJE credit.
- **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 4.
 - 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.
- 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 Year 3, and must have completed all other program requirements.
- Students must register continuously until all degree requirements have been fulfilled. Students register full-time during the first four years and may continue as part-time thereafter, with their department's approval.
- Students cannot transfer between the full-time and flexible-time PhD options.
- Students cannot transfer between the EdD and PhD programs.

Program Length

6 years

Time Limit

8 years

Social Justice Education: Social Justice Education EdD, PhD Courses

Not all courses are offered every year. Please consult the Office of the Registrar and Student Services' [course schedule](#).

Doctoral Level

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
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 1979H	Race, Gender, Sexuality, and Empire in Socialist Economies and States
SJE 2929H	Disability Studies . Interpretive Methods — RM (exclusion: SJE 3929H)
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
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 3916H	Women in Leadership Positions: Intersectionalities and Leadership Practices; Sociological Implications in Education
SJE 3917H	Indigenous Land Education and Black Geographies

	(prerequisite: any prior Indigenous and/or Black Studies course(s); exclusion: SJE 5007H)
SJE 3933H	Globalisation and Transnationality: Feminist Perspectives
SJE 3934H	Advanced Indigenous Feminist Research (prerequisite: prior coursework in Indigenous studies, women and gender studies; exclusion: SJE 6000H)
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 6000H	Special Topics in Social Justice Research in Education: Doctoral Level
JSA 5147H	Language, Nationalism, and Post-Nationalism

Social Work

Social Work: Introduction

Faculty Affiliation

Social Work

Degree Programs

Social Work

MSW

- Fields:
 - Children and Their Families;
 - Gerontology;
 - Health and Mental Health;
 - Human Services Management and Leadership;
 - Indigenous Trauma and Resiliency;
 - Social Justice and Diversity

PhD

Combined Degree Programs

- STG, Health Administration, MHSc / MSW (admissions have closed)
- [STG, Law, JD / MSW](#)
- [UTSC, Mental Health Studies \(Specialist\), HBSc / MSW](#)
- UTSC, Mental Health Studies (Specialist Co-op), HBSc / MSW

Diploma Programs

Advanced Diploma in Social Service Administration
(admissions have closed)

Collaborative Specializations

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

- [Addiction Studies](#)
 - Social Work, MSW, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Social Work, MSW, PhD
- [Bioethics](#)
 - Social Work, PhD
- [Community Development](#)
 - Social Work, MSW
- [Contemporary East and Southeast Asian Studies](#)
 - Social Work, MSW
- [Ethnic and Pluralism Studies](#)
 - Social Work, MSW, PhD

- Health Care, Technology, and Place (admissions have closed)
 - Social Work, PhD
- [Health Services and Policy Research](#)
 - Social Work, PhD
- [Human Development](#) (admissions have been suspended)
 - Social Work, PhD
 - Public Health Policy
 - Social Work, MSW, PhD
- [Sexual Diversity Studies](#)
 - Social Work, MSW, PhD
- [Women and Gender Studies](#)
 - Social Work, MSW, PhD
- [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 **Master of Social Work (MSW)** and **Doctor of Philosophy (PhD)** degrees.

The mission of the Faculty at the University of Toronto has an international perspective that is influenced by its position within one of the top universities in North America located in a global metropolis. As such, the Faculty is committed to:

- Educating and developing professionals who have the capacity to engage in and influence our changing world through social work practice, policy, and research.
- Advancing research, practice, and policy that shapes the future of a profession that crosses national boundaries.
- Providing leadership by mobilizing knowledge that incorporates the range of expertise existing within the broader social work communities that exist internationally.
- Collaborating with our diverse partners to address social inequities at local, national, and global levels.

Contact and Address

Web: socialwork.utoronto.ca
 Email: admissions.fsw@utoronto.ca
 Telephone: (416) 978-6314
 Fax: (416) 978-7072

Factor-Inwentash Faculty of Social Work
 University of Toronto
 246 Bloor Street West
 Toronto, Ontario M5S 1V4
 Canada

Social Work: Graduate Faculty

Full Members

Alaggia, Ramona - BA, MSW, PhD
 Bhuyan, Rupaleem - BA, MA, PhD
 Bogo, Marion - BA, MSW

Brennan, David - BA, MSW, PhD (**Associate Dean, Research**)
 Burnes, David - MSW, PhD (**Associate Dean, Academic; Graduate Coordinator**)
 Craig, Shelley - BS, MSW, PhD
 Fallon, Barbara - BA, MSW, PhD
 Fang, Lin - BA, MSW, PhD (**Director, PhD Program**)
 Fuller-Thomson, Esme - BA, MSW, PhD
 Grenier, Amanda - MSW, PhD
 Hulchanski, J. David - BA, MSc, PhD
 Lee, Eunjung - BSW, MSW, PhD
 Logie, Carmen - BA, MSW, PhD
 Mishna, Faye - BA, PhD
 Newman, Peter - BA, MA, MSW, PhD
 Regehr, Cheryl - AB, MA, PhD
 Saini, Michael - BSW, BA, BA, MSW, PhD
 Sakamoto, Izumi - DSW
 Sharpe, Tanya - BA, MSW, PhD
 Shier, Micheal - MSW, PhD
 Stern, Susan - DSW
 Tsang, Ka Tat - BSc, PhD
 Voisin, Dexter - MSW, MPH, PhD (**Dean**)
 Williams, Charmaine - BA, BSc, MSW, PhD
 Zuberi, Daniyal - BA, MSc, PhD

Members Emeriti

Bellamy, Donald - BA, BSW, MSW, DSW
 Breton, Margot - BA, MSW
 Chambon, Adrienne - BA, PhD
 Gadalla, Tahany - BASc, MS, MMath, EdD
 George, Usha - BSc, BEd, MA, MA, PhD
 Irving, Howard - BS, MSW, DSW
 MacFadden, Robert - BA, MSW, PhD
 Marziali, Elsa - BA, MSW, DSW
 McDonald, Lynn - PhD
 Meeks, Donald - BA, MSW, DSW, Associate In Commerce
 Neysmith, Sheila - BSc, MSW, DSW
 Power, Roxanne - BA, BSW, MSW
 Schlesinger, Benjamin - BA, MSW, PhD
 Shapiro, Ben - BA, BSW, MSW, DSW
 Shera, Wes - BA, MA, PhD
 Wells, Lilian - BA, BSW, BA, MSW

Associate Members

Adam, Barry - PhD
 Adamson, Keith - MSW, PhD
 Ansong, David - PhD
 Begun, Stephanie - MSW, PhD
 Bellamy, Jennifer - PhD
 Black, Tara - PhD
 Bledsoe, Sarah - PhD
 Bouffet, Eric - MD
 Carpenter, John S.W. - DSc
 Crowder, Rachael - PhD
 Daley, Andrea - PhD
 Damianakis, Thecla - MSW, PhD
 Dimitropoulos, Gina - BA, MSW, PhD
 Dube, Eve - PhD
 Fleischer, Les - BA, MSW, DSW
 Handy, Femida - PhD
 Herie, Marilyn - BA, MSW, PhD
 Ickowicz, Abel - MD
 Jeffery, Donna - PhD
 Katz, Ellen - BA, MSW, PhD
 King, Bryn - MSW, PhD

Kourgiantakis, Toulia - MSW, PhD
 Lau, Anna S. - PhD
 Levenson, Jill S. - PhD
 Litvack, Andrea - BSW, MSW
 MacDonald, Judy E. - PhD
 Muskat, Barbara - BSW, MSW, PhD
 Nichols, Naomi - PhD
 Rothwell, David - PhD
 Schmidt, Fred - BA, MA, PhD
 Sieppert, Jackie - PhD
 Wehbi, Samantha - PhD
 Whitfield, Kyle - PhD
 Xue, Jia - BCL, MA, PhD

Social Work: Social Work MSW

Master of Social Work

Program Description

The MSW program is distinguished by the integration of research and practice in both the classroom and its practicum education. The program offers six fields of specialization:

- Children and Their Families (MSW)
- Gerontology (MSW)
- Health and Mental Health (MSW)
- Human Services Management and Leadership (MSW)
- Indigenous Trauma and Resiliency (MSW)
- Social Justice and Diversity (MSW)

It is fully accredited by the Canadian Association for Social Work Education.

The Faculty of Social Work offers the Master of Social Work (MSW) program in a two-year option or an advanced-standing option for applicants entering with a Bachelor of Social Work (BSW) degree.

All students are expected to graduate with an advanced level of knowledge and professional competence in a chosen area of social work practice.

Social Work: Social Work MSW; Field: Children and Their Families

Master of Social Work (Field: Children and Their Families)

Within the MSW degree program, the field in Children and Their Families 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.

Minimum Admission Requirements

MSW Two-Year Program and MSW Advanced-Standing Option

- 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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements. Advanced-standing applicants must declare their field 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 Program and MSW Advanced-Standing Option

- **All MSW students:** Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student's entry to practicum. Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student's practicum. In anticipation of this requirement for the practicum, it is strongly recommended that students [begin this process early](#).
- 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

Year 1 MSW students in the Children and Their Families field must complete eight half courses (4.0 FCEs) and the Year 1 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 field)
SWK 4602H	Social Work Practice with Groups
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
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.*

- **Students in the MSW two-year program** must declare their field by mid-February of Year 1. See below for information by field.
- 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 Year 2 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.

MSW Two-Year Program

- Students must complete a total of **8.5 FCEs** including core MSW coursework (4.0 FCEs), required field coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in Year 1 and is offered in the Winter session; the Year 2 practicum (September to April) is equivalent to 1.0 FCE and must be in the student's field.
- Thesis: Students complete a total of **8.5 FCEs**, including core MSW coursework (4.0 FCEs), required field coursework (2.0 FCEs), practica (1.5 FCEs), and a thesis (1.0 FCE).

MSW Advanced-Standing Option

- 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.
- 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 2

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)

- Students in the advanced-standing option** 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 field).

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

Social Work: Social Work MSW; Field: Gerontology

Master of Social Work (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 will automatically be enrolled in the Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course.

Minimum Admission Requirements

MSW Two-Year Program and MSW Advanced-Standing Option

- 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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements. Advanced-standing applicants must declare their field 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 Program and MSW Advanced-Standing Option

- All MSW students: Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student's entry to practicum. Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student's practicum. In anticipation of this requirement for the practicum, it is strongly recommended that students [begin this process early](#).
- 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

Year 1 MSW students in the Gerontology field must complete eight half courses (4.0 FCEs) and the Year 1 practicum (0.5 FCE) from the list of required courses below. Students in the

Indigenous Trauma and Resiliency field should consult the specific course requirements listed separately in this entry.

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 field)
SWK 4602H	Social Work Practice with Groups
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
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.*

- **Students in the MSW two-year program** must declare their field by mid-February of Year 1.
- **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 Year 2 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.

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 coursework (2.5 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs) in the student's field.
- Thesis: Students in the two-year MSW program complete a total of **9.0 FCEs**, including core MSW coursework (4.0 FCEs), required field coursework (2.5 FCEs), elective coursework (1.0 FCE, 0.5 of which must be from the Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course listing), the Year 1 practicum (0.5 FCE), and a thesis (1.0 FCE).

MSW Advanced-Standing Option

- Students in the MSW advanced-standing option 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 advanced-standing option 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 Specialization in Aging, Palliative and Supportive Care Across the Life Course listing), and a thesis (1.0 FCE).

Compulsory Courses — Year 2

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)

- **Students in the MSW advanced-standing option** 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 field).

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

Social Work: Social Work MSW; Field: Health and Mental Health

Master of Social Work (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.

Minimum Admission Requirements

MSW Two-Year Program and MSW Advanced-Standing Option

- 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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements. Advanced-standing applicants must declare their field 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 Program and MSW Advanced-Standing Option

- **All MSW students:** Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student's entry to practicum. Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student's practicum. In anticipation of this requirement for the practicum, it is strongly recommended that students [begin this process early](#).
- 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

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 field)
SWK 4602H	Social Work Practice with Groups
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
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.*

- **Students in the MSW two-year program** must declare their field by mid-February of Year 1.
- **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 Year 2 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.

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 coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in Year 1 and is offered in the Winter session; the Year 2 practicum (September to April) is equivalent to 1.0 FCE and must be in the student's field.
- Thesis: Students in the MSW two-year program complete a total of **8.5 FCEs**, including core MSW coursework (4.0 FCEs), required field coursework (2.0 FCEs), practica (1.5 FCEs), and a thesis (1.0 FCE).

MSW Advanced-Standing Option

- Students in the MSW advanced-standing option 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.
- Thesis: Students in the MSW advanced-standing option 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 2

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)
- Students in the MSW advanced-standing option** 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 field).

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

Social Work: Social Work MSW; Field: Human Services Management and Leadership

Master of Social Work (Field: Human Services Management and Leadership)

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.

Minimum Admission Requirements

MSW Two-Year Program and MSW Advanced-Standing Option

- 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 Human Services Management and Leadership field must have at least two years of volunteer or work experience in human 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.
- 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. See [General Regulations section 4.3](#) for requirements. Advanced-standing applicants must declare their field 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 Program and MSW Advanced-Standing Option

- All MSW students:** Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student's entry to practicum. Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student's practicum. In anticipation of this requirement for the practicum, it is strongly recommended that students [begin this process early](#).
- 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

Year 1 MSW students in the Human Services Management and Leadership field must complete eight half courses (4.0 FCEs) and the Year 1 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 field)
SWK 4602H	Social Work Practice with Groups
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
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.*

- **Students in the MSW two-year program** must declare their field by mid-February of Year 1.
- **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 Year 2 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.

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 coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in Year 1 of the MSW two-year program and is offered in the Winter session; the Year 2 practicum (September to April) is equivalent to 1.0 FCE and must be in the student's field.

- Students in the Human Services Management and Leadership field do not have the option of doing a thesis.

MSW Advanced-Standing Option

- Students in the MSW advanced-standing option 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.

Compulsory Courses — Year 2

SWK 4425H	Human Services Management and Leadership
SWK 4426H	Financial Management and Leadership in Human Service Organizations
SWK 4427H	Human Resource Management in Human Service Organizations
SWK 4515H	Research and Quality Improvement in Human Service Organizations
SWK 4702Y	Social Work Practicum II (full credit)

- **Students in the MSW advanced-standing option** 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 field.)

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

Social Work: Social Work MSW; Field: Indigenous Trauma and Resiliency

Master of Social Work (Field: Indigenous Trauma and Resiliency)

The Indigenous Trauma and Resiliency field integrates theory and research drawn from social work and Indigenous knowledge for application in the delivery of services and interventions for Indigenous populations. There is an emphasis on the First Nations, Métis, and Inuit peoples of Canada and other Indigenous groups. The curriculum is offered through online and intensive classroom formats.

Initial admission inquiries should be made directly to the Factor-Inwentash Faculty of Social Work. Applicants holding the minimum admission requirements are not guaranteed admission. All admission decisions are final.

This field is offered only as a two-year, full-time program.

Minimum Admission Requirements

- Applicants are admitted under the General Regulations of the School of Graduate Studies. Applicants must also satisfy the Factor-Inwentash Faculty of Social Work's additional admission requirements stated below.
- Applicants with an appropriate bachelor's degree or Bachelor of Social Work (BSW) 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 can be admitted to this field.
- All applicants must have completed 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.
- Three years of experience (voluntary or paid) in the social services or related field and knowledge of critical social issues. Suitability for professional practice in social work will also be 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 demonstrate proficiency in English. See [General Regulations section 4.3](#) for requirements
- Applicants must submit a resumé and demonstrate at least three years of experience in social services, preferably working with Aboriginal or Indigenous communities.
- Applicants may be asked to complete an admissions interview in person or by Skype as part of the application process.

Program Requirements

- Students must complete **7.5 FCEs** as follows:
 - Year 1: seven half courses (3.5 FCEs)
 - Year 2:
 - six half courses (3.0 FCEs) and
 - a 450-hour summer practicum (1.0 FCE).
- Students entering the program with BA or BASc courses must complete an additional 1.0 FCE (two half courses SWK 4102H and SWK 4516H [summer practicum]) in Year 1.
- Students are expected to submit a Vulnerable Sector Verification by June 1 prior to the course registration. It is strongly recommended that students [begin this process early](#).

Year 1 Courses

SWK 4101H	Understanding Historical and Multigenerational Trauma
SWK 4102H	Social Policy and Social Welfare in the Canadian Context
SWK 4106H	Social Work Ethics and Indigenous Communities
SWK 4108H	Sexual Abuse, Sexual Assault, and the Family
SWK 4109H	Trauma and Human Development
SWK 4110H	Trauma and Addiction

SWK 4111H	Trauma-Informed Schools, Community Intervention, and the Healing Power of Ceremony
SWK 4510H	Research for Evidence-Based Social Work Practice
SWK 4516H	Indigenous Trauma and Resiliency Practicum

Year 2 Courses

SWK 4517H	Indigenous and Participatory Research Methods
SWK 4703Y	MSW ITR Practicum III
SWK 4901H	Facilitating Training in Indigenous Communities
SWK 4902H	Indigenous Perspectives on Grief, Loss, and Unattended Sorrow
SWK 4903H	Trauma-Informed Care, Organizations, Supervision, and Leadership
SWK 4904H	Working with Couples and Families in Indigenous Context
SWK 4905H	Seeing the Need, Creating the Solution

Program Length

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

Time Limit

3 years full-time

Social Work: Social Work MSW; Field: Social Justice and Diversity

Master of Social Work (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.

Minimum Admission Requirements

MSW Two-Year Program and MSW Advanced-Standing Option

- 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.
- 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.
- 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. See [General Regulations section 4.3](#) for requirements. Advanced-standing applicants must declare their field 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 Program and MSW Advanced-Standing Option

- **All MSW students:** Agencies that offer practica will likely require a Vulnerable Sector Verification prior to commencing the practicum. Failure to pass this check will jeopardize a student's entry to practicum. Cost and time factors are associated with the Vulnerable Sector Verification. A delay in obtaining the results can impact the start time of a student's practicum. In anticipation of this requirement for the practicum, it is strongly recommended that students [begin this process early](#).
- 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.

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 field)
SWK 4602H	Social Work Practice with Groups
SWK 4605H	Social Work Practice with Individuals and Families
SWK 4654H	Social Work Practice in Organizations and Communities
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.*

- **Students in the MSW two-year program** must declare their field by mid-February of Year 1.
- **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 Year 2 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.

MSW Two-Year Program

- Students must complete a total of **8.5 FCEs** including core MSW coursework (4.0 FCEs), required field coursework (2.0 FCEs), elective coursework (1.0 FCE), and practica (1.5 FCEs). The practicum (0.5 FCE) is required for students in Year 1 and is offered in the Winter session; the Year 2 practicum (September to April) is equivalent to 1.0 FCE and must be in the student's field.
- Thesis: Students complete a total of **8.5 FCEs**, including core MSW coursework (4.0 FCEs), required field coursework (2.0 FCEs), practica (1.5 FCEs), and a thesis (1.0 FCE).

MSW Advanced-Standing Option

- Students in the MSW advanced-standing option 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.
- 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 2

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)

- **Students in the MSW advanced-standing option** 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 field).

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

Social Work: Social Work MSW Courses

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 of Social Work website.

AGE 2000H	Principles of Aging
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 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	Indigenous Trauma and Resiliency Practicum
SWK 4610H	Advanced Social Work Practice with Couples
SWK 4614H	Social Work Practice in Palliative Care
SWK 4615H	Cognitive Behavioural Theories and Clinical Social Work Practice
SWK 4616H	Drug Dependencies: Interventive Approaches
SWK 4619H	Family Mediation: 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 4634H	Family Practice Across the Life Cycle
SWK 4636H	Special Topics in Mental Health Social Work
SWK 4637H	Special Topics in Health Social Work
SWK 4638H	Social Work Practice in Children's Mental Health
SWK 4639H	Special Topics in Child and Family Social Work
SWK 4640H	Special Topics in Mental Health Social Work II
SWK 4641H	Special Topics in Social Work in Gerontology
SWK 4642H	Special Topics in Human Services Management and Leadership
SWK 4643H	Special Topics in Social Justice and Diversity
SWK 4645H	Special Topics in Children and their Families II
SWK 4646H	Special Topics in Human Services Management and Leadership II (modular course)
SWK 4647H	Family-Centred Practices in Addictions and Mental Health
SWK 4658H	Social Work with Immigrants and Refugees
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 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

Social Work: Social Work PhD

Doctor of Philosophy

Program Description

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. 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.

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.
- 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. See [General Regulations section 4.3](#) for requirements. 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. The application deadline for the PhD program is December 1. The Faculty of Social Work does not guarantee admission to all applicants who meet its minimum requirements.

Program Requirements

- **Coursework.** Students must complete a total of **5.5 full-course equivalents (FCEs)**, generally within two years of registration, as follows:
 - 2.0 FCEs in required research courses:
 - SWK 6301H *Intermediate Statistics and Data Analysis* (0.5 FCE)
 - SWK 6302H *Epistemology and Social Work Research* (0.5 FCE)
 - SWK 6307H *Designing and Implementing Qualitative Social Work Research* (0.5 FCE)
 - SWK 6308H *Designing and Implementing Quantitative Social Work Research* (0.5 FCE)
 - 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 Year 2.
- Year 1 PhD students will attend a mandatory Year 1 colloquium during the Winter session (two full days), no credit.
- Following completion of **at least nine of the above courses**, students must satisfactorily complete SWK 8000H *Comprehensive Exam* (Credit/No Credit) (0.5 FCE) during the Winter session of Year 2.
- Following completion of all coursework, students must satisfactorily complete:
 - a **thesis proposal**,
 - a **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 Year 3. The research, writing, and Doctoral Final Oral Examination of the thesis are typically completed by the end of Year 5.
- 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 (excluding SWK 8000H *Comprehensive Exam*), or receives an FZ (inadequate) after repeating any course, the Faculty will take steps to recommend the termination of the student's registration.
- In the event that a student receives an NCR (No Credit) for SWK 8000H *Comprehensive Exam*, the Faculty will take steps to recommend the termination of the student's registration.

Program Length

4 years

Time Limit

6 years

Social Work: Social Work PhD Courses

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)
SWK 8000H	Comprehensive Exam (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)
-----------	---

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 of Social Work website.

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 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

Social Work: Social Work Advanced Diploma in Social Service Administration

Admissions to this diploma program have closed.

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.

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 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

- Students must complete **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

Social Work: Social Work Advanced Diploma in Social Service Administration Courses

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 full-course equivalent (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.

Sociology

Sociology: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Sociology

MA and PhD

Collaborative Specializations

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

- [Addiction Studies](#)
 - Sociology, MA, PhD
- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Sociology, MA, PhD
- [Contemporary East and Southeast Asian Studies](#)
 - Sociology, MA
- [Development Policy and Power](#)
 - Sociology, MA
- [Diaspora and Transnational Studies](#)
 - Sociology, MA, PhD
- [Environmental Studies](#)
 - Sociology, MA, PhD
- [Ethnic and Pluralism Studies](#)
 - Sociology, MA, PhD
- [Food Studies](#)
 - Sociology, MA, PhD
- [Jewish Studies](#)
 - Sociology, MA, PhD
- [Sexual Diversity Studies](#)
 - Sociology, MA, PhD
- [Women and Gender Studies](#)
 - Sociology, MA, PhD

Overview

The Department of Sociology is consistently the top-ranked sociology department in Canada, with internationally renowned scholars who have an excellent track record for securing research funding, producing outstanding sociological research, and mentoring graduate students extensively. A collegial atmosphere encourages innovation and rigour in research and teaching. The community of scholars includes faculty members, outstanding postdoctoral scholars, and creative and engaged graduate students.

The department's graduate programs provide exceptional training to students in advanced social research. The focus is on transforming graduate students from consumers of academic research into producers of new sociological

knowledge. To that end, there is a strong focus on methodological training; graduate students are integrated thoroughly into the faculty research programs in the department.

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

Sociology: Graduate Faculty

Full Members

Baber, Zaheer - PhD
 Baumann, Shyon - BA, MA, PhD
 Berrey, Ellen - AB, PhD
 Berry, Brent - BS, PhD
 Boyd, Monica - BA, MA, PhD
 Bryant, Joseph - BA, MA, PhD
 Brym, Robert - BA, MA, PhD
 Choo, Hae Yeon - BA, MA, PhD
 Cranford, Cynthia - MA, PhD
 Dinovitzer, Ronit - BA, MA, PhD
 Erickson, Bonnie - BA, MA, PhD
 Erickson, Patricia - BA, MA, PhD
 Farah Schwartzman, Luisa - PhD
 Fields, Jessica - BA, MA, MA, PhD
 Fox, Bonnie - AB, PhD
 Goodman, Philip - BA, MA, 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
 Kervin, John - BA, PhD
 Korteweg, Anna - BA, MA, PhD
 Kruttschnitt, Candace - BA, MA, MPH, PhD
 Landolt, Patricia - BA, MA, PhD
 Lee, Jooyoung - BA, MA, PhD
 Lee, Yoonkyung - BPhil, MA, PhD
 Leschziner, Vanina - BA, BA, AM, DPhil
 Levi, Ron - BCL, LLB, LLM, SJD
 Liu, Sida - LLB, PhD
 Magee, William - PhD
 Maurutto, Paula - DPhil
 Milkie, Melissa - BA, MA, PhD (**Graduate Chair**)
 Mullen, Ann Louise - BA, MA, PhD
 Peng, Ito - BSW, BSc, MA, PhD
 Reitz, Jeffrey - PhD
 Schafer, Markus - BA, MS, PhD (**Graduate Coordinator**)
 Schieman, Scott - BA, MA, PhD
 Schneiderhan, Erik - PhD
 Silver, Daniel - BA, MA, PhD
 Tanner, Julian - DipEd, BSc, MA, PhD

Taylor, Judith - BA, PhD
 Tepperman, Lorne - BA, MA, PhD
 Veugelers, Jack - PhD
 Welsh, Sandy - BA, MA, PhD
 Wheaton, Blair - PhD
 Zhang, Weiguo - PhD

Members Emeriti

Blute, Marion - BA, MA, PhD
 Breton, Raymond - BA, MA, PhD
 Brownfield, David - PhD
 Campbell, Douglas - BA, MA, PhD
 Friedmann, Harriet - AB, MA, PhD
 Gartner, Rosemary - BA, AA, MS, PhD
 Gillis, Ronald - BA, MA, PhD
 Hagan, John - BA, MA, PhD
 Harvey, Edward - BA, MA, PhD
 Howell, Nancy - BA, PhD
 Isajiw, Wsevolod - BA, MA, PhD
 Jones, Charles - BA, MA, PhD
 Magill, Dennis - BA, MA, PhD
 Michelson, William - AB, AM, PhD
 Silva, Edward - BA, MA, PhD
 Simpson, John - BA, BD, MTh, PhD
 Spencer, Metta - AB, MA, PhD
 Ungar, Sheldon - BA, MA, PhD
 Zeitlin, Irving - BA, MA, PhD

Associate Members

Adese, Jennifer - BA, BA, MA, PhD
 Alegria, Sharla - AM
 Alexander, Monica - MA, PhD
 Baker, Jayne - MA, PhD
 Boeckmann, Irene - PhD
 Caron, Christian - BA, MA, PhD
 Childress, Christopher Clayton - BA, MA, PhD
 Dokshin, Fedor - BA, DPhil
 Elcioglu, Emine Fidan - BA, MA, PhD
 Flores, Jerry - BA, MA, MA, PhD
 Fosse, Ethan - BA, AM, PhD
 Gray, Robin - BA, MA, PhD
 Grigoryeva, Angelina - BA, PhD
 Haag, Julius - BA, MA
 Hoffman, Steven - BA, PhD
 Innocente, Nathan - BA, MA, MA
 La Touche, Rachel - BA, MA, PhD
 Liddle, Kathy - BA, AM, PhD
 Maghbouleh, Neda - BA, MA, PhD
 Marin, Alexandra - BA, MA, PhD
 Miles, Andrew - BA, MA, PhD
 Owusu-Bempah, Akwasi - BA, MA, PhD
 Pernell-Gallagher, Kim - MA, PhD
 Plys, Kristin Victoria - BA, MPH, MA, PhD
 Richer, Zachary - BA, MA, MA, PhD
 Salem, Rania Hatem - BSc, MSS, PhD
 Shams, Tahseen - BA, MA, PhD
 Silver, Michelle - BA, BS, MA, PhD
 Smith, Chris - BA, PhD
 Spence, Nicholas David - BA, PhD
 Super, Gail Jennifer - BCL, BA, MSc, PhD
 Wodtke, Geoffrey - BA, MA, PhD

Sociology: Sociology MA

Master of Arts

Program Description

The MA 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 have the option of completing the master's degree in one of two ways:

- Coursework (the preferred option for those proceeding to the PhD).
- Coursework plus research paper.

Students can take the program on a part-time or full-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 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, single-spaced typed statement of interest indicating research interests, research experience, and reasons for applying to study sociology at the University of Toronto.
- Proficiency in the English language, demonstrated by all applicants educated outside Canada whose primary language is not English. See [General Regulations section 4.3 English-Language Proficiency](#) for minimum TOEFL (Test of English as a Foreign Language and TWE (Test of Written English) scores required.

Program Requirements

- **Coursework Option:** the preferred option for those proceeding to the PhD
 - 4.0 FCEs or eight half courses including:
 - SOC 6001H *Classical Sociological Theory I*
 - SOC 6302H *Statistics for Sociologists*
 - SOC 6712H *Qualitative Methods I*
- **Coursework Plus Research Paper Option**
 - 3.0 FCEs or six half courses including:

- SOC 6001H *Classical Sociological Theory I*
- SOC 6302H *Statistics for Sociologists*
- SOC 6712H *Qualitative Methods I*.
- A research paper.
- Regardless of option, the MA program is completed in 12 months.
- The choice of courses in all programs must be approved by the department.
- A maximum of 0.5 FCE in reading courses may be counted towards the degree requirements.
- A maximum of 0.5 FCE in elective courses taken outside the department may be counted towards the degree requirements unless approval of the Graduate Coordinator is obtained.
- Students must maintain a **B average** to be recommended for the MA 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

Sociology: Sociology PhD

Doctor of Philosophy

Program Description

The PhD 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.

Applicants may enter the PhD program via one of two routes:
1) following completion of an appropriate MA or 2) direct entry after completing a bachelor's degree.

PhD Program

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.

- 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, single-spaced typed statement of interest indicating research interests, research experience, and reasons for applying to study sociology at the University of Toronto.
 - Proficiency in the English language, demonstrated by all applicants educated outside Canada whose primary language is not English. See [General Regulations section 4.3 English-Language Proficiency](#) for minimum TOEFL (Test of English as a Foreign Language and TWE (Test of Written English) scores required.

Program Requirements

- **Coursework.** Students must complete **5.0 full-course equivalents (FCEs)** including:
 - SOC 6101H *Contemporary Sociological Theory*
 - SOC 6707H *Intermediate Data Analysis*
 - SOC 6511H *Professional Development Seminar I*
 - SOC 6611H *Professional Development Seminar II*
 - SOC 6711Y *Research Practicum*
 - If a student has already taken these courses at the graduate level, other courses will be substituted to obtain the 5.0 FCEs total.
 - A maximum of 0.5 FCE in reading courses may be counted towards the degree requirements.
 - A maximum of 0.5 FCE in elective courses taken outside the department may be counted towards the degree requirements unless approval of the Graduate Coordinator is obtained.
- 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.
- Doctoral students must complete SOC 6511H and SOC 6611H **Professional Seminar Series** (CR/NCR). These seminars consist of a series of workshops designed to guide students in their graduate school career and beyond. SOC 6511H *Professional Development Seminar I* must be completed in the Fall session of Year 1. SOC 6611H *Professional Development Seminar II* must be completed in the Fall session of Year 3.
- Two **comprehensive examinations**, which must be completed by the end of Year 2. If a student fails a comprehensive exam, the student has one attempt to rewrite the exam. The rewrite must occur in the next available exam session.
- Submission of a written **thesis proposal** and its successful oral defence before 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.
- 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.
- Two years of **residence**, whereby students must be on campus and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

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 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, single-spaced typed statement of interest indicating research interests, research experience, and reasons for applying to study sociology at the University of Toronto.
 - Proficiency in the English language, demonstrated by all applicants educated outside Canada whose primary language is not English. See [General Regulations section 4.3 English-Language Proficiency](#) for minimum TOEFL (Test of English as a Foreign Language and TWE (Test of Written English) scores required.

Program Requirements

- **Coursework.** Students must complete **6.5 full-course equivalents (FCEs)** including:
 - SOC 6001H *Classical Sociological Theory I*
 - SOC 6101H *Contemporary Sociological Theory*
 - SOC 6302H *Statistics for Sociologists*
 - SOC 6511H *Professional Development Seminar I*
 - SOC 6611H *Professional Development Seminar II*
 - SOC 6707H *Intermediate Data Analysis*
 - SOC 6711Y *Research Practicum*
 - SOC 6712H *Qualitative Methods I*.

- A maximum of 0.5 FCE in reading courses and 0.5 FCE in elective courses taken outside the department may be counted towards the degree requirements.
- 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.
- Doctoral students must complete SOC 6511H and SOC 6611H **Professional Seminar Series** (CR/NCR). These seminars consist of a series of workshops designed to guide students in their graduate school career and beyond. SOC 6511H *Professional Development Seminar I* must be completed in the Fall session of Year 1. SOC 6611H *Professional Development Seminar II* must be completed in the Fall session of Year 3.
- Two **comprehensive examinations**, which must be completed by the end of Year 2. If a student fails a comprehensive exam, the student has one attempt to rewrite the exam. The rewrite must occur in the next available exam session.
- Submission of a written **thesis proposal** and its successful oral defence before 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.
- 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.
- Two years of **residence**, whereby students must be on campus and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

Sociology: Sociology MA, PhD Courses

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	Sociological Theory IV
SOC 6302H	Statistics for Sociologists
SOC 6303H	Ethnography

SOC 6401H	Special Topics in Sociological Theory
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 6715H	Historical Sociology

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

Areas of Specialization

Gender and Family

SOC 6017H	Sociology of Families I
SOC 6019H	Gender Relations I
SOC 6119H	Gender Relations II
SOC 6219H	Gender Relations III

Health and Mental Health

SOC 6022H	Sociology of Health
SOC 6023H	Sociology of Mental Health I
SOC 6024H	Special Topics in Health
SOC 6122H	Sociology of Mental Health II
SOC 6123H	Sociology of Addiction
SOC 6126H	The Social Ecology of Health

Immigration, Ethnicity, and Race

SOC 6002H	Immigration I
SOC 6003H	Immigration II
SOC 6009H	Ethnicity I
SOC 6109H	Ethnicity II
SOC 6209H	Ethnicity III

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

Political Sociology

SOC 6010H	Political Sociology I
SOC 6110H	Political Sociology II
SOC 6210H	Political Sociology III
SOC 6014H	Environmental Sociology I

SOC 6125H	Theories of Social Change
-----------	---------------------------

Sociology of Crime and Law

CRI 3140H	Special Topics in Criminology and Sociolegal Studies
SOC 6006H	Sociology of Crime and Law I: Criminology
SOC 6106H	Sociology of Crime and Law II: Sociology of Law
SOC 6206H	Sociology of Crime and Law III: Punishment
SOC 6306H	Advanced Topics in Sociology of Crime and Law I
SOC 6406H	Advanced Topics in Sociology of Crime and Law II
SOC 6506H	Advanced Topics in Sociology of Crime and Law III

Sociology of Culture

SOC 6516H	Sociology of Culture
SOC 6517H	Culture and Cognition
SOC 6518H	Culture Industries
SOC 6519H	Sociology of Food
SOC 6520H	Special Topics in Sociology of Culture

Work, Stratification, and Markets

SOC 6012H	Work, Stratification, and Markets I
SOC 6013H	Social Inequality I
SOC 6112H	Work, Stratification, and Markets II
SOC 6212H	Work, Stratification, and Markets III
SOC 6312H	Work, Stratification, and Markets IV

Other Courses

SOC 6021Y	Sociology and the Policy Process in Canada
SOC 6511H	Professional Development Seminar I (Credit/No Credit)
SOC 6611H	Professional Development Seminar II (Credit/No Credit)
SOC 6811H	Seminar in Teaching

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
-----------	-------------------

Spanish

Spanish: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Spanish

MA and PhD

- Fields:
 - Hispanic Linguistics;
 - Hispanic Literatures and Cultures

Collaborative Specializations

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

- [Book History and Print Culture](#)
 - Spanish, MA, PhD
- [Diaspora and Transnational Studies](#)
 - Spanish, MA, PhD
- [Editing Ancient and Medieval Texts](#)
 - Spanish, PhD
- [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

Spanish: Graduate Faculty

Full Members

Antebi, Susan - AM, PhD
 Colantoni, Laura - MA, PhD
 Cuervo, M. 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 (**Chair and Graduate Chair**)
 Rodriguez, Nestor - BA, PhD
 Rupp, Stephen - BA, MA, MPH, MA, PhD
 Sarabia, Rosa - BA, PhD

Members Emeriti

Burke, James - BA, MA, PhD
 Ellis, Keith A.A. - 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
 Skyrme, Raymond - BA, MA, PhD
 Webster, Jill - BA, MA, PhD

Associate Members

Ramirez-Salazar, Manuel - BA, MA, PhD
 Steele, Jeffrey - BA, MA, PhD

Spanish: Spanish MA

Master of Arts

Program Description

The application process for the Master of Arts program is competitive; meeting the minimum standards for admission does not guarantee acceptance.

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 (in English)
 - a sample of written work in Spanish (10 to 12 pages)
 - two letters of recommendation, ideally in English (one of the letters must comment on the applicant's fluency in Spanish)
 - a curriculum vitae in English.

Program Requirements

- 4.0 full-course equivalents (FCEs) at the graduate level.
- MA students specialize in one of two fields:
 - Hispanic Linguistics
 - Hispanic Literatures and Cultures.
- The 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.
- With departmental approval, courses may be taken in a cognate unit (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 of 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

Spanish: Spanish PhD

Doctor of Philosophy

Program Description

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.

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 (in English)
 - a sample of written work in Spanish (10 to 12 pages)
 - two letters of recommendation, ideally in English (one of the letters must comment on the applicant's fluency in Spanish)
 - a curriculum vitae in English.

Program Requirements

- PhD students specialize in one of two fields:
 - Hispanic Linguistics
 - Hispanic Literatures and Cultures.
- **Coursework.** Students must complete **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.
- 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 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: 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 Field 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. The oral examination will follow two weeks after the written exam; 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 Year 2 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 Year 3 of enrolment and retake the oral examination on the proposal by October 15 of that year.
- **Language requirements** must be fulfilled before registering for Year 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

Spanish: Spanish MA, PhD Courses

Most graduate courses are offered in a regular rotation. As a result, only a subset 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.

SPA 1053H	History of the Spanish Language
SPA 1080H	Descriptive Grammar of Spanish
SPA 1082H	Sociolinguistics of Spanish
SPA 1083H	Microvariation in Spanish
SPA 1088H	Spanish Syntax
SPA 1089H	Spanish Morphosyntax
SPA 1090H	Second Language Speech Learning
SPA 1091H	Second Language Acquisition of Portuguese and Spanish (prerequisites: PRT 320Y1, PRT 219Y1, SPA 320Y1, or SPA 219Y1)
SPA 1092H	Portuguese and Spanish Semantics
SPA 1093H	Introduction to Hispanic Linguistics
SPA 1094H	Spanish Bilingualism
SPA 1097H	Second-Language Teaching and Methodology
SPA 1101H	Topics in the Acquisition of Spanish
SPA 1104H	Experimental Approaches to Sound Variation and Change
SPA 1105H	Spanish Intonation
SPA 1150H	Directed Research in Hispanic Linguistics
SPA 2016H	Medieval Spanish Narrative
SPA 2018H	Poetics of Early Drama
SPA 2052H	Graphic Legacy of Celestina: Visual Culture and Social Studies
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 2152H	Cervantes' Don Quixote
SPA 2160H	Transatlantic Hispanic Baroque
SPA 2284H	Narrative and Political Transition in Spain
SPA 2291H	The Urban Experience in Spain
SPA 2292H	New Ruralism and Spain
SPA 2304H	Latin American Cinema
SPA 2305H	Auteurism in Spanish Cinema
SPA 2352H	Modern Spanish Drama and its Traditions
SPA 2404H	The Latin American Novel
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 2900H	Issues in Literary Theory and Hispanic Texts
SPA 2905H	Latin American Cultural Theories
SPA 2940H	Pursuing the Post-Revolution: Literature and Philosophy of Mexicanidad
SPA 2947H	Transparency and Politics in Contemporary Mexican Literature
SPA 3000H	Directed Research in Hispanic Literatures
JOS 5019H	Cervantes and Renaissance Humanism

Speech-Language Pathology

Speech-Language Pathology: Introduction

Faculty Affiliation

Medicine

Degree Programs

Speech-Language Pathology

MHSc

Overview

The Department of Speech-Language Pathology was established at the University of Toronto in 1958 with the creation of a two-year postgraduate diploma program, the first English-speaking program in Canada. The **Master of Health Science (MHSc)** program was established in 1978 and is a full-time professional graduate program. Academic and clinical faculty provide innovative teaching and learning opportunities for students in a unique integrated curriculum.

Contact and Address

Web: slp.utoronto.ca
 Email: slp.admissions@utoronto.ca
 Telephone: (416) 978-1794
 Fax: (416) 978-1596

Department of Speech-Language Pathology
 Faculty of Medicine
 University of Toronto
 Rehabilitation Sciences Building
 #160-500 University Avenue
 Toronto, Ontario M5G 1V7
 Canada

Speech-Language Pathology: Graduate Faculty

Full Members

Bressmann, Tim - MPH, PhD
 De Nil, Luc - MSc, PhD
 Girolametto, Luigi - BA, MSc, PhD
 Helms-Park, Rena - BA, MA, AM, DPhil
 Johnson, Carla - PhD
 Martino, Rosemary - BS, MA, PhD
 Molnar, Monika - PhD
 Rochon, Elizabeth - BA, MSc, PhD
 Smyth, Ronald - BA, MSc, PhD
 Square, Paula Ann - BSc, MA, PhD

van Lieshout, Pascal - MA, MA, PhD (**Chair and Graduate Chair**)

Yunusova, Yana - MS, MA, PhD

Associate Members

Bradley, Kimberley - BA, MHSc, PhD
 Deluzio, Joanne - BSc, MCISc, PhD, PhD
 Ellwood, Lynn - BSc(CD), MA
 Jacobson, Marlene - BA, PhD
 Kagan, Aura - BAA, BA, MA, PhD
 Kroll, Robert - BSc, MSc, PhD
 Leonard, Carol - BA, MASc, PhD
 Ng, Stella - BA, MA, PhD
 Parnes, Pauline - BSc
 Wagner, Susan - BSc, MSc
 Weitzman, Elaine - BA, MEd

Speech-Language Pathology: Speech-Language Pathology MHSc

Master of Health Science

Program Description

The MHSc program educates highly competent graduate-level clinicians in the profession of speech-language pathology. It prepares students to work in a variety of settings, such as hospitals, schools, and community clinics. Speech-language pathologists provide service across the lifespan to individuals with a wide range of speech, language, hearing, and swallowing disorders. The integrated curriculum places equal emphasis on theoretical and practical competencies regarding normal development, as well as on the assessment and treatment of disorders in human communication and swallowing.

The MHSc program extends over 22.5 months and comprises five academic and four clinical units with a capstone portfolio in a unique and internationally acclaimed curriculum. The themed academic units are directly followed by full-time clinical placements targeting the same areas of practice, enabling a strong research-to-practice focus.

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 and outlined in the [Ontario Rehabilitation Sciences Application Service \(ORPAS\) Application Guide](#).
- Applicants must obtain an appropriate bachelor's degree from a recognized university, with a standing equivalent to at least a University of Toronto mid-B in the final year.
- Applicants must complete prerequisite undergraduate university-level courses with grades of at least a B+ in child development (one half course), general linguistics (one half course), phonetics (one half course), elementary statistics (one half course), and human physiology (one full course).
- Applicants must arrange to have two academic referees complete the Confidential Assessment Form and write an academic reference letter.

- Applicants must complete a minimum of 14 hours of clinical experience supervised by a registered speech-language pathologist.
- Applicants must arrange for a Clinical Reference Form and accompanying letter from the primary supervisor of the clinical experience.
- Applicants must complete a Statement of Intent that has two components: 1) the reasons for choosing speech-language pathology as a career; specific personal attributes that would be relevant to the profession; academic and non-academic accomplishments and reasons for choosing the MHSc program in Speech-Language Pathology at the University of Toronto; and 2) a summary of volunteer experiences.
- Proficiency in oral and written English is 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, Test of Written English (TWE), and Test of Spoken English (TSE), the department will accept the 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 to provide an opportunity to clarify documentation and explore in-depth issues, such as spoken and written language ability and areas of academic performance or interpersonal communication skills.
- See the [departmental website](#) and the [ORPAS Application Guide](#) for details on application instructions.

Program Requirements

- The professional MHSc program is divided into **five academic and four clinical units**. Each academic unit is composed of related coursework. Teaching within and across units emphasizes integrated learning experiences. Academic units are followed by full-time clinical placements, four overall for a total of 30 weeks of clinical experience throughout the two-year program. Students should anticipate receiving at least one placement outside the Greater Toronto Area. Students must accept placements offered to them and are responsible for all travel and accommodation costs.
- Prior to graduation, all MHSc students are required to complete a **capstone 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

Speech-Language Pathology: Speech-Language Pathology MHSc Courses

Consult the departmental website for a listing of courses offered during each academic year.

Year 1

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	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 (Credit/No Credit)
SLP 1539H ⁰	Capstone Portfolio

⁺ *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. Credit is given when the course is completed, or the course is graded when completed.*

Year 2

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
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.*

Statistical Sciences

Statistical Sciences: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Financial Insurance

MFI

Statistics

MSc

- Fields:
 - Statistical Theory and Applications;
 - Probability

PhD

- Fields:
 - 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, and computational tools become more efficient, 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.

Please visit the [departmental website](#) for details about the fields offered, the research being conducted, and the courses. The department offers substantial computing facilities 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.

Contact and Address

MFI Program

Web: www.mfi.utoronto.ca
 Email: info@mfi.utoronto.ca
 Telephone: (416) 978-7420

Department of Statistical Sciences
 Faculty of Arts & Science, University of Toronto
 Stewart Building, Room 410C, 149 College Street
 Toronto, Ontario M5T 1P5
 Canada

MSc and PhD Programs

Web: www.statistics.utoronto.ca
 Email: grad.statistics@utstat.utoronto.ca
 Telephone: (416) 978-8838
 Fax: (416) 978-5133

Department of Statistical Sciences
 Faculty of Arts & Science, University of Toronto
 Sidney Smith Hall, Room 6022, 100 St. George Street
 Toronto, Ontario M5S 3G3
 Canada

Statistical Sciences: Graduate Faculty

Full Members

Alexander, Monica - MA, PhD
 Badescu, Andrei - BSc, MSc, DPhil
 Brenner, David - BSc, MSc, PhD
 Broverman, Samuel - BSc, MSc, PhD
 Brown, Patrick - BA, MSc, PhD
 Brunner, Jerry - BA, MA, PhD, DPhil
 Craiu, Radu - BSc, MSc, PhD (**Chair and Graduate Chair**)
 Escobar, Michael - BS, PhD
 Evans, Michael - BSc, MSc, PhD
 Feuerverger, Andrey - BSc, PhD
 Fortin, Marie-Josée - MSc, PhD
 Jaimungal, Sebastian - BSc, MSc, PhD
 Knight, Keith - BSc, MS, PhD
 Lin, Xiaodong - BSc, MSc, MMath, PhD
 Lou, Wendy - DPhil
 McDunnough, Philip - BSc, MSc, PhD
 Pesenti, Silvana - BSc, MSc, PhD
 Quastel, Jeremy - BSc, MS, PhD
 Reid, Nancy - BM, MSc, PhD, FRSC
 Rosenthal, Jeffrey - BSc, AM, PhD, FRSC
 Simpson, Daniel - PhD
 Stafford, James - BS, MS, PhD
 Sun, Lei - BS, PhD (**Associate Chair, Graduate Studies**)
 Sun, Qiang - BSc, PhD
 Virag, Balint - BA, MA, PhD
 Wang, Linbo - BS, PhD
 Wong, Ting-Kam Leonard - BSc, MPH, PhD
 Yao, Fang - BSc, MSc, DPhil
 Zhang, Yuchong - BSc, PhD
 Zhou, Zhou - MSc, DPhil

Members Emeriti

Andrews, David - BSc, MSc, PhD
 Corey, Paul - BSc, MA, PhD
 Fraser, Donald A.S. - BA, MA, PhD, FRSC
 Guttman, Irwin - BSc, MA, PhD
 Neal, Radford - BSc, MSc, PhD
 Srivastava, Muni - MSc, PhD

Associate Members

Bolton, Liza - BSc
 Chevalier, Fanny - PhD
 Daignault, Katherine Suzanne - MSc
 Erdogdu, Murat Anil - PhD
 Gibbs, Alison - BSc, MSc, PhD
 Huynh Wong, Karen - BE
 Moon, Nathalie - BSc, MMath, PhD
 Shams, Shahriar - MA
 Sue-Chee, Shivon - PhD
 Taback, Nathan - BSc, MSc, PhD
 Tounkara, Fode - PhD
 Willmot, Gordon - BMath, MMath, PhD
 Zhang, Vicki - BScEE, MSc

Statistical Sciences: Financial Insurance MFI

Master of Financial Insurance

Program Description

The MFI is a full-time professional program based on three pillars: data science, financial mathematics, and insurance modelling. This program is appropriate for students with backgrounds in statistics, actuarial science, economics, and mathematics. Students with a quantitative background (such as physics and engineering) and sufficient statistical training are also encouraged 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 Statistical Sciences' additional admission requirements stated below.
- An appropriate bachelor's degree from a recognized university in a related field such as statistics, mathematics, finance, and actuarial science, or any discipline where there is a significant quantitative component. Studies must include significant exposure to statistics, mathematics, finance, and actuarial science, including coursework in advanced calculus, computational methods, linear algebra, probability, and statistics.
- An average grade equivalent to at least a University of Toronto B+ in the final year or over senior courses; applicants who meet the SGS grade minimum of mid-B and demonstrate exceptional ability through appropriate workplace experience will be considered.
- Three letters of reference including two academic references, one of which should be in a quantitative discipline.
- A curriculum vitae detailing the student's educational background, professional experience, and skills.
- 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 outlined in the *SGS Calendar*.
- Selected applicants may be required to attend an interview.

Admission to the program is competitive, and achievement of the minimum admission standards does not guarantee admission into the program.

Program Requirements

- Students must successfully complete **5.5 full-course equivalents (FCEs)** as follows:
 - Eight and a half required half courses (4.0 FCEs).
 - STA 2546H *Data Analytics in Practice* (0.25 FCE).
 - Any one of Statistical Sciences' 0.25 FCE 4000-level graduate course offerings with significant financial, insurance, or data science components, with approval of the MFI program director.
 - STA 2560Y *Industrial Internship*, a four-month summer internship (1.0 FCE). Students must submit a project proposal to the program director and select an advisor by April 15. Students will propose a placement site to be approved by the department. The department will provide approval of the proposal by May 15. An interim report is required by July 7. Students must prepare a final written report and deliver an oral presentation on the internship project at the conclusion of the internship.

Required Courses

Fall Session

STA 2503H	Applied Probability for Mathematical Finance
STA 2530H	Applied Time-Series Analysis
STA 2535H	Life Insurance Mathematics
STA 2536H	Data Science for Risk Modelling
STA 2550H*	Industrial Seminar Series

Winter Session

STA 2540H	Insurance Risk Management
STA 2546H	Data Analytics in Practice
STA 2550H*	Industrial Seminar Series
STA 2551H	Finance and Insurance Case Studies
STA 2570H	Numerical Methods for Finance and Insurance
STA 45##	[To be selected by the student with approval of the Director.]

Summer Session

STA 2560Y	Industrial Internship
-----------	-----------------------

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

Program Length

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

Time Limit

3 years full-time

Statistical Sciences: Statistics MSc

Master of Science

Program Description

Students in the MSc program can conduct research in the fields of 1) Statistical Theory and Applications or 2) Probability. The program offers numerous courses in theoretical and applied aspects of Statistical Sciences, which prepare students for pursuing a PhD program or directly entering the data science workforce.

The MSc program can be taken on a full-time or part-time basis. Program requirements are the same for the full-time and part-time options.

Fields:

- 1) Statistical Theory and Applications;
- 2) 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.
 - A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

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.
- 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*
- 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 students** are limited to taking 1.0 FCE during each session. In exceptional cases, the Associate Chair for Graduate Studies may approve 1.5 FCEs in a given session.

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

Statistical Sciences: Statistics PhD

Doctor of Philosophy

Program Description

Students in the PhD program can conduct research in the fields of 1) Statistical Theory and Applications or 2) Probability or 3) Actuarial Science and Mathematical Finance. The research conducted in the department is vast and covers a diverse set of areas in theoretical and applied aspects of Statistical Sciences. Students have the opportunity to work in multidisciplinary areas and team up with researchers in, for example, Biostatistics, Computer Science, Economics, Engineering, and the Rotman School of Management. The main purpose of the program is to prepare students for pursuing advanced research both in academia and in research institutes.

Applicants may enter the PhD program via one of two routes:
1) ing completion of an appropriate master's degree or 2) direct entry after completing an appropriate bachelor's degree (excluding Actuarial Science and Mathematical Finance).

Fields:

- 1) Statistical Theory and Applications;
- 2) Probability

PhD Program

Minimum Admission Requirements

- Admission to the PhD program is competitive, and applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants may be accepted with 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.
- Three letters of recommendation.
- A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

Course Requirements

- During Year 1, 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 Year 1, students must attempt the following comprehensive examinations:
 - Probability
 - Theoretical Statistics
 - Applied Statistics

All three examinations must be passed by the end of Year 2.

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, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

4 years

Time Limit

6 years

PhD Program (Direct-Entry)

Minimum Admission Requirements

- Admission to the PhD program is competitive, and applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants may be accepted via direct entry with a bachelor's degree in statistics from a recognized university with at least an A- average. The department also encourages applicants from biostatistics, computer science, economics, engineering, mathematics, physics, or any discipline where there is a significant quantitative component.
- Three letters of recommendation.
- A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

Course Requirements

- During Year 1, 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*
- 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.

Comprehensive Examination Requirements

- At the end of Year 1, students must attempt the following comprehensive examinations:
 - Probability
 - Theoretical Statistics
 - Applied Statistics

All three examinations must be passed by the end of Year 2.

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 three-year residency requirement, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

Field: Actuarial Science and Mathematical Finance

PhD Program

Minimum Admission Requirements

- Admission to the PhD program is competitive, and applicants are admitted under the General Regulations of the School of Graduate Studies.
- Applicants may be accepted with 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.
- Three letters of recommendation.
- A curriculum vitae.
- 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. See [General Regulations section 4.3](#) for requirements.

Program Requirements

Course Requirements

- During Year 1, students must complete the following 3.0 full-course equivalents (FCEs):
 - All of:
 - STA 2111H *Probability Theory I*,
 - STA 2211H *Probability Theory II*, and
 - STA 2503H *Applied Probability for Mathematical Finance*
 - One of:
 - STA 4246H *Research Topics in Mathematical Finance* **or**
 - STA 2501H *Mathematical Risk Theory*
 - 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 Year 1, 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 Year 2.

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 three-year residency requirement, whereby students must be on campus full-time and consequently in geographical proximity to be able to participate fully in the University activities associated with the program.

Program Length

5 years

Time Limit

7 years

Statistical Sciences: Statistics MSc, PhD Courses

The department offers a selection of courses each year from the following list with the possibility of additions. The core courses will be offered each year. Visit the department's website for courses offered in the current academic year.

STA 1001H	Applied Regression Analysis
STA 1002H	Methods of Data Analysis
STA 1003H	Sample Survey Theory and its Application
STA 1004H	Introduction to Experimental Design
STA 1007H	Statistics for Life and Social Scientists
JAS 1101H	Topics in Astrostatistics
STA 2005H	Applied Multivariate Analysis
STA 2006H	Applied Stochastic Processes
STA 2016H	Theory and Methods for Complex Spatial Data (prerequisite: STA302H1)
STA 2080H	Fundamentals of Statistical Genetics
STA 2101H	Methods of Applied Statistics I
STA 2102H	Computational Techniques in Statistics
STA 2104H	Statistical Methods for Machine Learning and Data Mining
STA 2111H	Probability Theory I
STA 2112H	Mathematical Statistics I
STA 2201H	Methods of Applied Statistics II
STA 2202H	Time Series Analysis
STA 2211H	Probability Theory II
STA 2212H	Mathematical Statistics II
STA 2453H	Data Science Methods, Collaboration, and Communication
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 2530H	Applied Time-Series Analysis
STA 2535H	Life Insurance Mathematics
STA 2536H	Data Science for Risk Modelling
STA 2540H	Insurance Risk Management
STA 2546H	Data Analytics in Practice
STA 2550H*	Industrial Seminar Series
STA 2551H	Finance and Insurance Case Studies
STA 2555H	Information Visualization
STA 2560Y	Industrial Internship
STA 2570H	Numerical Methods for Finance and Insurance
STA 2600H	Teaching and Learning of Statistics in Higher Education
STA 2700H	Computational Inference and Graphical 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 4273H	Research Topics in Statistical Machine Learning
STA 4364H	Conditional Inference: Sample Space Analysis
STA 4372H	Foundations of Statistical Inference
STA 4412H	Topics in Theoretical Statistics Modular Courses

Note: The following **modular** courses are each worth **0.25 full-course equivalent (FCE)**.

STA 4500H	Statistical Dependence: Copula Models and Beyond
STA 4501H	Functional Data Analysis and Related Topics
STA 4502H	Topics in Stochastic Processes
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 4515H	Multiple Hypothesis Testing and its Applications
STA 4516H	Topics in Probabilistic Programming
STA 4517H	Foundations and Trends in Causal Inference
STA 4518H	Robust Statistical Methods (prerequisite: STA 2112H or permission)
STA 4519H	Optimal Transport: Theory and Algorithms (prerequisites: STA 2111H and STA 2211H, or permission by the instructor)
STA 4522H	The Measurement of Statistical Evidence
STA 4523H	Bayesian Computation with Massive Data and Intractable Likelihoods
STA 4524H	Advanced Topics in Statistical Genetics
STA 4525H	Demographic Methods
STA 4526H	Stochastic Control and Applications in Finance
STA 4527H	Random Matrix Theory and Its Applications
STA 4528H	Dependence Modelling With Application to Risk Management

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

Theoretical Astrophysics

Theoretical Astrophysics: Introduction

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

Theoretical Astrophysics: Graduate Faculty

Full Members

Bond, J. Richard - BSc, MS, PhD, FRSC, FRS
 Martin, Peter - BSc, MSc, PhD, FRSC, OC
 Murray, Norman - BSc, PhD, CRC
 Pen, Ue-Li - BSc, PhD
 Pfeiffer, Harald - MSc, PhD, CRC
 Thompson, Christopher - BSc, PhD

Women and Gender Studies

Women and Gender Studies: Introduction

Faculty Affiliation

Arts and Science

Degree Programs

Women and Gender Studies

MA and PhD

Overview

The overall graduate program is cutting edge for its focus on transnational feminist studies. Graduate students and faculty investigate how gender and sexuality are informed, lived, and reinvented amidst entwined yet discrepant narratives, geographies, and histories.

Graduate work at the Women and Gender Studies Institute (WGSi) encourages an engagement with an interdisciplinary range of theories and methods that grapple with how gender and sexuality are entangled with questions of race, citizenship, embodiment, colonialism, nation, global capitalism, violence, political economy, cultural formations, aesthetics, and other pressing concerns.

The core faculty brings transnational feminist commitments to the study of diverse sites and their interconnection with particular focus on Canada, the Caribbean, Africa, the Middle East, South Asia, East Asia, and the United States. In doing so, the institute seeks to ask feminist questions as well as put feminism into question.

Areas of focus within the transnational feminist approach include:

- gender, sexuality and queer studies
- political economy and critical development studies
- feminist studies of technology, science, environment and biomedicine
- feminist cultural studies.

The MA and PhD degree programs also feature the option of a practicum that aspires to strengthen students' ability to interrogate the application of theories and methods to lived practice.

Collaborative Specializations

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

- [Aging, Palliative and Supportive Care Across the Life Course](#)
 - Women and Gender Studies, MA

- [Bioethics](#)
 - Women and Gender Studies, MA
- [Contemporary East and Southeast Asian Studies](#)
 - Women and Gender Studies, MA
- [Diaspora and Transnational Studies](#)
 - Women and Gender Studies, MA, PhD
- [Environment and Health](#)
 - Women and Gender Studies, MA, PhD
- [Environmental Studies](#)
 - Women and Gender Studies, MA, PhD
- [Ethnic and Pluralism Studies](#)
 - Women and Gender Studies, MA, PhD
- [Jewish Studies](#)
 - Women and Gender Studies, MA
- [Sexual Diversity Studies](#)
 - Women and Gender Studies, MA, PhD
- [South Asian Studies](#)
 - Women and Gender Studies, MA, PhD
- [Women's Health](#)
 - Women and Gender Studies, MA, PhD
- [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

Women and Gender Studies: Graduate Faculty

Full Members

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
 Columpar, Corinn - BA, PhD
 Cossman, Brenda - LLB, LLM
 Cowen, Deborah - BA, MCP, PhD
 Dave, Naisargi - 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, Katie - BMus, AB, MPH, PhD
 Lo, Marieme - BA, MA, MSc, PhD
 Magnusson, Jamie-Lynn - BA, MA, PhD
 McElhinny, Bonnie - BA, 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
 Silvey, Rachel - BA, MA, PhD
 Song, Jesook - BA, PhD
 Sykes, Heather - BSc, PhD
 Taylor, Judith - BA, PhD
 Titchkosky, Tanya - BA, MA, PhD
 Trotz, Alissa - AB, MPH, PhD (**Director**)
 Tuck, Eve - BA, PhD
 Valverde, Mariana - BA, MA, PhD, FRSC
 Walcott, Rinaldo - BA, MA, PhD
 Wane, Njoki - BE, MSc, MEd, PhD
 Yoneyama, Lisa - BA, MA, PhD

Members Emeriti

Armatage, Kay - BA, MA, PhD

Associate Members

Ellapen, Jordache Abner - BA, MA, MA, PhD
 Goldstein, Tara - BA, PhD
 Sweeney, Shauna - PhD
 Todorova, Miglena - BA, MA, PhD
 Ye, Shana - BA, MA, PhD

Women and Gender Studies: Women and Gender Studies MA

Master of Arts

Program Description

The MA program in Women and Gender Studies 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 MA program is a full-time program and cannot be taken on a part-time basis.

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. Students must complete a 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 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 1006Y).
 - 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

Women and Gender Studies: Women and Gender Studies PhD

Doctor of Philosophy

Program Description

The PhD program in Women and Gender Studies has four areas of focus:

- gender, sexuality, and queer studies
- feminist cultural studies
- feminist studies of technology, science, environment, and biomedicine; and
- transnational political economy and development studies.

The 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.

Applicants may enter the PhD program via one of two routes:

- following completion of an appropriate MA
- direct entry after completing a bachelor's degree.

PhD Program

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.
- 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.
- All **coursework** should normally be completed by the end of Year 1 of PhD study. Students must complete **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.
- Completion of WGS 2000H (0.0 FCE), a credit/non-credit course, requiring participation in the **WGS Research Seminar Series**. Normally, students 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.
- **Comprehensive examinations:**
 - Completion of two comprehensive exams, one in a primary and one in a secondary area of study, defined in consultation with the advisor and other committee members.
 - The dissertation proposal, an integral part of the comprehensive exams, should be defended and accepted no later than June 30 of Year 2.
 - 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.
 - Comprehensives should be completed by June 30 of Year 2.
- 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.

- 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

Time Limit

6 years

PhD Program (Direct-Entry)

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.
- In exceptional cases, direct-entry admission is 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 better. 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.
- All **coursework** should normally be completed by the end of Year 2 of PhD study. Students must complete **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.
- Completion of WGS 2000H (0.0 FCE), 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.
- **Comprehensive examinations:**
 - Completion of two comprehensive exams, one in a primary and one in a secondary area of study, defined in consultation with the advisor and other committee members.

- The dissertation proposal, an integral part of the comprehensive exams, should be defended and accepted no later than June 30 of Year 3.
- 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.
- Comprehensives should be completed by June 30 of Year 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.
- 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

5 years

Time Limit

7 years

Women and Gender Studies: Women and Gender Studies MA, PhD Courses

WGS 1003H	Special Topics in Feminist Studies
WGS 1004H	Special Topics in Feminist Theory
WGS 1005Y	MA Research Paper
WGS 1006Y	Practicum in Women and Gender Studies
WGS 1007H	Directed Research/Reading
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 1013H	Special Topics in Feminist Theory 1
WGS 1014H	Special Topics in Feminist Theory 2
WGS 1016H	Migration, Mobility, and Displacement in Contemporary Africa
WGS 1017H	Special Topics in Feminist Studies
WGS 1018H	Special Topics in Feminist Studies
WGS 1019H	Special Topics in Feminist Studies

WGS 1020H	Gender and Globalization: Transnational Perspectives
WGS 1021H	Black Diasporic Feminisms: Modernity, Freedom, Belonging
WGS 1022H	Special Topics in Feminist Studies
WGS 1023H	Studies in Aesthetic Expression and Radical Hope
WGS 1024H	Special Topics in Feminist Studies
WGS 1025H	Indigenous Aesthetics: Hip Hop, Media, and Futurities
WGS 1026H	Special Topics in Race and Feminism
WGS 1027H	Special Topics in Queer Studies and Feminism
WGS 1028H	Queer of Colour Critique
WGS 5000H	Feminist Theories, Histories, Movements I
WGS 5001H	Feminist Theories, Histories, Movements II

Combined Degree Programs

The University of Toronto offers approximately 130 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 / master's degree programs
- second-entry undergraduate / master's degree programs
- second-entry undergraduate / doctoral degree programs
- master's / master's degree programs

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.

UTM, Astronomical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Ast Sci (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Astronomical Sciences / Master of Teaching (MT)** is designed for students interested in studying the intersections of astronomy and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Astronomical Sciences
Department of Chemical & Physical Sciences, University of Toronto Mississauga
Christina Fortes, Academic Counsellor
Web: www.utm.utoronto.ca/cps
Email: christina.fortes@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Ast Sci (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Ast Sci (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Astronomical Sciences specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Astronomical Sciences, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the Master of Teaching website for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Astronomical Sciences, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Biochemistry (Major), Honours Bachelor of Science / Master of Teaching

UTSC Bch (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Biochemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci/
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Bch (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Bch (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biochemistry major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Biochemistry, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Biochemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Biochemistry (Major Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Bch (Maj Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major Co-op in Biochemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utoronto.ca/physsci/
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Bch (Maj Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Bch (Maj Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biochemistry major co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- In their [Statement of Intent](#), applicants should indicate their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major co-op in Biochemistry, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major co-op in Biochemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Biological Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Bio Chm (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Biological Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of chemistry and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Biological Chemistry
Department of Chemical & Physical Sciences, University of Toronto Mississauga
Christina Fortes, Academic Counsellor
Web: www.utm.utoronto.ca/cps
Email: christina.fortes@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Bio Chm (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Bio Chm (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biological Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing to the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Biological Chemistry, which fulfils the 6.0 FCEs required for Science-Biology, Science-Chemistry, or Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Biological Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Biological Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Bio Chm (Spec) HBS Sc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Biological Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Bio Chm (Spec) HBS Sc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBS Sc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBS Sc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBS Sc program and degree requirements.

UTSC Bio Chm (Spec) HBS Sc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBS Sc degree program and the Biological Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBS Sc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Biological Chemistry, which fulfils the 6.0 FCEs required for Science-Biology, Science-Chemistry, or Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Biological Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses (i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs).
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Biological Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Bio Chm (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Biological Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Bio Chm (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Bio Chm (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biological Chemistry specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Biological Chemistry, which fulfils the 6.0 FCEs required for Science-Biology, Science-Chemistry, or Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Biological Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Biology
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Biology (Major), Honours Bachelor of Science / Master of Teaching

UTM Bio (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Major in Biology
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Bio (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Bio (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Biology (Major), Honours Bachelor of Science / Master of Teaching

UTSC Bio (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/major-program-biology-science>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Bio (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Bio (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Biology for Health Sciences (Major), Honours Bachelor of Science / Master of Teaching

UTM Bio Health Sci (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Biology for Health Sciences / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Major in Biology for Health Sciences
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Bio Health Sci (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Bio Health Sci (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Biology for Health Sciences major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Biology for Health Sciences, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Biology for Health Sciences, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Chm (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of chemistry and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Chemistry
Department of Chemical & Physical Sciences, University of Toronto Mississauga
Christina Fortes, Academic Counsellor
Web: www.utm.utoronto.ca/cps
Email: christina.fortes@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Chm (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Chm (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Chm (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Chm (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Chm (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Chm (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Chm (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Chm (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs of Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Chemistry (Major), Honours Bachelor of Science / Master of Teaching

UTM Chm (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of chemistry and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Major in Chemistry
 Department of Chemical & Physical Sciences, University of Toronto Mississauga
 Christina Fortes, Academic Counsellor
 Web: www.utm.utoronto.ca/cps
 Email: christina.fortes@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Chm (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Chm (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.
¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.		
* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the MT calendar entry .		

UTSC, Chemistry (Major), Honours Bachelor of Science / Master of Teaching

UTSC Chm (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Chm (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Chm (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree program.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Chemistry (Major Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Chm (Maj Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major Co-op in Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Chm (Maj Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Chm (Maj Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Chemistry major co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program.
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major co-op in Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major co-op in Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Communication, Culture, Information and Technology (Major), Honours Bachelor of Arts / Master of Information

UTM CCIT (Maj) HBA / MI: Introduction

Effective January 1, 2020, this combined degree program is closed.

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; and User Experience Design. Visit the program website for [more details on the concentrations](#).

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Communication, Culture, Information and Technology (Major) Program
Institute of Communication, Culture, Information and Technology
Web: www.utm.utoronto.ca/ccit/programs/programs-offered/ccit-major
Email: ccit.utm@utoronto.ca

Master of Information Program
Faculty of Information
Web: <http://ischool.utoronto.ca/future-students/apply/mi-apply/>
Email: inquire@ischool.utoronto.ca

UTM CCIT (Maj) HBA / MI: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MI program, and the CDP.
- Applicants must gain independent admission to both the HBA and MI programs before they may be considered for admission to the CDP.
- Qualified students in Year 3 of the HBA program may apply to the MI program; those accepted will receive a conditional offer to start the MI program when the HBA program requirements have been completed.

UTM CCIT (Maj) HBA / MI: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MI program.
- Students must be enrolled full-time in the HBA program and be in good standing in the HBA program with a cumulative grade point average (CGPA) of no less than 3.7 in Year 2. Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- For admission to the MI program, students must:
 - maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the HBA program,
 - complete the HBA program requirements, and
 - demonstrate HBA degree conferral.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> Complete 5.0 full-course equivalents (FCEs) each year towards the HBA degree. In Year 4, complete 2.0 FCEs in Information courses, which count towards the HBA program requirements. 	<ul style="list-style-type: none"> In Years 1 to 3, complete all 5.0 FCEs each year towards the HBA program requirements. In Year 3 of the HBA program, receive a conditional offer of admission to the MI program. In Years 3 and 4, complete any remaining HBA program requirements, with 2.0 FCEs taken from the MI program counting towards the overall HBA program requirements. Complete the 2.0 FCEs from the MI program as follows: INF 1005H and INF 1006H (0.25 FCE each), and 1.5 FCEs from one of the MI concentrations. For details on the concentrations, see the Information calendar entry or visit the Faculty of Information website.
5 and 6	<ul style="list-style-type: none"> Complete 6.0 FCEs in MI program requirements. 	<ul style="list-style-type: none"> In Years 5 and 6, complete the remaining 6.0 FCEs required for the selected MI concentration. Please see the Information calendar entry for full course requirements.

UTM, Comparative Physiology (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Comp Psl (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Comparative Physiology / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Comparative Physiology
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Comp Psl (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Comp Psl (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Comparative Physiology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Comparative Physiology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Comparative Physiology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.
¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.		
* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the MT calendar entry .		

UTSC, Conservation and Biodiversity (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Cons Bio (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Conservation and Biodiversity / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSci program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/specialist-program-conservation-and-biodiversity-science>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program
University of Toronto Scarborough
Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>
Email: gisela.bento@utoronto.ca

UTSC Cons Bio (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Cons Bio (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Conservation and Biodiversity specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Complete the following undergraduate courses (1.0 FCE) as part of the HBSc degree requirements:
 - BIOC63H3 *Conservation Biology* and
 - BIOD54H3 *Applied Conservation Biology*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a grade of B. in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field.
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE.
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE.
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> • HBSc degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include the specialist in Conservation and Biodiversity. • By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> • Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ BIOC63H3 <i>Conservation Biology</i> (0.5 FCE) and ○ BIOD54H3 <i>Applied Conservation Biology</i> (0.5 FCE). • Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> • Optional two-month academic or internship training. 	<ul style="list-style-type: none"> • EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> • Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). • Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Conservation and Biodiversity (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Cons Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Conservation and Biodiversity / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-conservation-and-biodiversity-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Cons Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Cons Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Conservation and Biodiversity specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Conservation and Biodiversity, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Conservation and Biodiversity, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Conservation and Biodiversity (Major), Honours Bachelor of Science / Master of Teaching

UTSC Cons Bio (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Conservation and Biodiversity / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/major-program-conservation-and-biodiversity-science>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Cons Bio (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Cons Bio (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Conservation and Biodiversity major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Conservation and Biodiversity, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Conservation and Biodiversity, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Digital Enterprise Management (Specialist), Honours Bachelor of Arts / Master of Information

UTM DEM (Spec) HBA / MI: Introduction

Effective January 1, 2020, this combined degree program is closed.

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; and User Experience Design. Visit the program website for [more details on the concentrations](#).

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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: <http://ischool.utoronto.ca/future-students/apply/mi-apply/>
Email: inquire@ischool.utoronto.ca

UTM DEM (Spec) HBA / MI: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MI program, and the CDP.
- Applicants must gain independent admission to both the HBA and MI programs before they may be considered for admission to the CDP.
- Qualified students in Year 3 of the HBA program may apply to the MI program; those accepted will receive a conditional offer to commence the MI program when the HBA program requirements have been completed.

UTM DEM (Spec) HBA / MI: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MI program.
- Students must be enrolled full-time in the HBA program and be in good standing in the HBA program with a cumulative grade point average (CGPA) of no less than 3.7 in Year 2. Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- For admission to the MI program, students must:
 - maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the HBA program,
 - complete HBA program requirements, and
 - demonstrate HBA degree conferral.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> Complete 5.0 full-course equivalents (FCEs) each year towards the HBA degree. In Year 4, complete 2.0 FCEs in Information courses, which count towards the HBA program requirements. 	<ul style="list-style-type: none"> In Years 1 to 3, complete all 5.0 FCEs each year towards the HBA program requirements. In Year 3 of the HBA program, receive a conditional offer of admission to the MI program. In Years 3 and 4, complete any remaining HBA program requirements, with 2.0 FCEs taken from the MI program counting towards the overall HBA program requirements. Complete the 2.0 FCEs from the MI program as follows: INF 1005H and INF 1006H (0.25 FCE each), and 1.5 FCEs from one of the MI concentrations. For details on the concentrations, see the Information calendar entry or visit the Faculty of Information website.
5 and 6	<ul style="list-style-type: none"> Complete 6.0 FCEs in MI program requirements. 	<ul style="list-style-type: none"> In Years 5 and 6, complete the remaining 6.0 FCEs required for the selected MI concentration. Please see the Information calendar entry for full course requirements.

UTM, Ecology and Evolution (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Eco Evo (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Ecology and Evolution / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Ecology and Evolution
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Eco Evo (Spec) HBA / MT: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, then to the MT program and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Eco Evo (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Ecology and Evolution specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Ecology and Evolution, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Ecology and Evolution, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Engineering, Bachelor of Applied Science / Master of Business Administration

STG Eng BASc / MBA: Introduction

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 1.4.3](#).

Contact

The Jeffrey Skoll Combined Bachelor of Applied Science in Engineering / Management, Master of Business Administration
<http://undergrad.engineering.utoronto.ca/academics-registration/skoll-bascmba-program/>
www.rotman.utoronto.ca/Degrees/MastersPrograms/JointDegrees/SkollMBA

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: ally.morrow@rotman.utoronto.ca

STG Eng BASc / MBA: Application Process

- Applicants must apply to both the BASc program and the MBA program as specified in the admission requirements.
- Applicants must gain independent admission to both the BASc and MBA programs before they may be considered for admission to the CDP.
- BASc students may apply to the CDP in Year 4.

STG Eng BASc / MBA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [BASc program](#), the School of Graduate Studies, and the [MBA program](#).
 - Note: graduates of the BASc program who have completed the Professional Experience Year (PEY) internship need not meet the recommended MBA admission requirement of at least two years of full-time work experience.
- 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 are welcome to apply.

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	Progression	Specific Requirements
1 to 5	<ul style="list-style-type: none"> • BASc program and degree requirements. • Professional Experience Year (PEY) internship. 	<ul style="list-style-type: none"> • Complete 20.0 full-course equivalents (FCEs) in BASc program and degree requirements • In Year 4, apply to the CDP and MBA programs.

		<ul style="list-style-type: none"> Normally, after Year 3, complete the 16-month PEY internship in a business or not-for-profit setting. Students may opt to complete the PEY after Year 2.
6 and 7	<ul style="list-style-type: none"> In Years 6 and 7, register for the MBA program and complete the MBA program requirements. 	<ul style="list-style-type: none"> Students complete all the full-time MBA program requirements as detailed in the Management, Rotman School calendar entry.

UTSC, English (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC Eng (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-english-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Eng (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Eng (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the English specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in English, which fulfils the 6.0 FCEs required for English as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in English, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, English (Specialist Co-op), Honours Bachelor of Arts / Master of Teaching

UTSC Eng (Spec Co-op) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist Co-op in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-english-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Eng (Spec Co-op) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Eng (Spec Co-op) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the English specialist co-op program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in English, which fulfils the 6.0 FCEs required for English as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in English, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, English (Major), Honours Bachelor of Arts / Master of Teaching

STG Eng (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Honours Bachelor of Arts, Major in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of English and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE), St. George (STG) campus. They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Honours Bachelor of Arts, Major in English / Master of Teaching
www.vic.utoronto.ca/academic-programs/upper-year-programs/combined-degree-program-in-education/

Honours Bachelor of Arts Program
 Faculty of Arts and Science, Victoria College
 Web: www.vic.utoronto.ca
 Email: vic.academics@utoronto.ca

Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

STG Eng (Maj) HBA / MT: Application Process

- Applicants apply to the Honours Bachelor of Arts (HBA) program, then to the MT program and the CDP.
- In the Spring session of Year 3 of the HBA program, students apply for conditional admission to the MT program.

STG Eng (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the English major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA degree program:
 - Be registered in Year 3 of the HBA program.

- Have an average grade equivalent to at least a B+, normally demonstrated by an average grade in Year 2.
- Have completed or be on course to complete the Education and Society minor program (Victoria College).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 full-course equivalents [FCEs] in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in English, which fulfils the 6.0 FCEs required for English as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the minor in Education and Society; ○ a minimum of 6.0 FCEs as part of the English major requirements, which will also qualify as prerequisite courses in the first teaching subject; and ○ a second minor, which will also qualify as the minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, English (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Eng (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-english-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Eng (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Eng (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the English major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) as specified by the MT program (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in English, which fulfils the 6.0 FCEs required for English as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in English, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, English (Major Co-op), Honours Bachelor of Arts / Master of Teaching

UTSC Eng (Maj Co-op) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major Co-op in English / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/major-co-operative-program-english-arts>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Eng (Maj Co-op) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Eng (Maj Co-op) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the English major co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major co-op in English, which fulfils the 6.0 FCEs required for English as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major co-op in English, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Bio (Spec) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Biology Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-biology-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: www.chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Bio (Spec) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Biology (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Bio (Spec) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B. . These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfill both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Bio (Spec Co-op) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Biology Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-biology-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Bio (Spec Co-op) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Biology (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Bio (Spec Co-op) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Biology specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Bio (Spec) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Biology Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-biology-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Bio (Spec) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Biology (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Bio (Spec) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Bio (Spec Co-op) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Biology Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-biology-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Bio (Spec Co-op) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Biology (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Bio (Spec Co-op) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Biology specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements. •
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Bio (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSci program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>
Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Bio (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Bio (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program).
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE.
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE.
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist in Environmental Biology. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Bio (Spec Co-op) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>

Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Bio (Spec Co-op) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Bio (Spec Co-op) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Biology specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program).
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE.
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE.
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist co-op in Environmental Biology. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Env Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Env Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Environmental Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Environmental Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Biology (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Env Bio (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Env Bio (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Bio (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Biology specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Environmental Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Environmental Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Chm (Spec) HBSc / Chem MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Chemistry Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-chemistry-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Chm (Spec) HBSc / Chem MEng: Application Process

Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Chemistry (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Chm (Spec) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 FCEs each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses offered by the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Chm (Spec Co-op) HBSc / Chem MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Chemistry Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-chemistry-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Chm (Spec Co-op) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Chemistry (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Chm (Spec Co-op) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Chemistry specialist co-op program.
- Meet the admission requirements of School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program,
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses offered by the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Chm (Spec) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Chemistry Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-chemistry-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Chm (Spec) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Chemistry (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Chm (Spec) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses, with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Chm (Spec Co-op) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Chemistry Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-chemistry-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Chm (Spec Co-op) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Chemistry (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Chm (Spec Co-op) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Chemistry specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Chm (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>
Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-chemistry-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Chm (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Chm (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE;
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE;
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist in Environmental Chemistry. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Chm (Spec Co-op) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>

Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-chemistry-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Chm (Spec Co-op) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Chm (Spec Co-op) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Chemistry specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field.
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE.
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE.
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist co-op in Environmental Chemistry. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Env Chm (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Env Chm (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Chm (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Environmental Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Environmental Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Env Chm (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Env Chm (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Chm (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Chemistry specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Environmental Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Environmental Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree (20.0 FCEs) and MT degree (10.0 FCEs).
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Geo (Spec) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Geoscience Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-geoscience-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Geo (Spec) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Geoscience (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Geo (Spec) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Geoscience specialist program.
- Meet the admission requirements of School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average (CGPA of 3.3) or higher in Year 2;
 - Carry a full course load of 5.0 FCEs each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of completing up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Geo (Spec Co-op) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Geoscience Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-geoscience-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Geo (Spec Co-op) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Geoscience (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Geo (Spec Co-op) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Geoscience specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses must achieve a minimum grade of B. . These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Geo (Spec) HBS Sc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Geoscience Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-geoscience-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Geo (Spec) HBS Sc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBS Sc) program in Environmental Geoscience (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBS Sc program requirements.

UTSC Env Geo (Spec) HBS Sc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBS Sc program and Environmental Geoscience specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBS Sc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBS Sc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBS Sc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 credit in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Geo (Spec Co-op) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Geoscience Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-geoscience-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Geo (Spec Co-op) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Geoscience (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Geo (Spec Co-op) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Geoscience specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Geoscience (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Geo (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Geoscience / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-geoscience-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program
University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Geo (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Geo (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Geoscience specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE;
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE;
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist in Environmental Geoscience. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Geo (Spec Co-op) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Geoscience / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSci program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-geoscience-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program
University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Geo (Spec Co-op) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Geo (Spec Co-op) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Geoscience specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE;
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE;
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist co-op in Environmental Geoscience. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTM, Environmental Management (Specialist), Honours Bachelor of Arts / Sustainability Management, Master of Science

UTM Env Mgt (Spec) HBA / MScSM: Introduction

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 Master of Science in Sustainability Management (MScSM) program in their final year of study.

Although there is no acceleration in time to completion in this CDP, 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 degree.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor

UTM, Honours Bachelor of Arts, Specialist in Environmental Management / Master of Science in Sustainability Management

Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=23

Email: sabrina.ferrari@utoronto.ca

Environmental Management Program

University of Toronto Mississauga

Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=23

Email: sabrina.ferrari@utoronto.ca

Rose Mary Craig, Program Coordinator

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

UTM Env Mgt (Spec) HBA / MScSM: Application Process

- Applicants apply to the Honours Bachelor of Arts (HBA) program, the MScSM program, and the CDP.
- Applicants must gain independent admission to both the HBA and MScSM programs before they may be considered for admission to the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study.
- Applicants apply and interview for early conditional admission to the MScSM program.

UTM Env Mgt (Spec) HBA / MScSM: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MScSM program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Environmental Management specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MScSM program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have either completed or are currently enrolled in a minimum of 15.0 total full-course equivalents (FCEs).
 - Have a minimum annual grade point average (AGPA) of 3.7 in their most recent 5.0 FCEs.

To be given **full, unconditional admission to the MScSM program**, applicants must meet the following admission requirements:

- Be conferred with the HBA degree.
- Successfully complete 1.0 graduate FCE in MScSM courses.

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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • 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.
2	<ul style="list-style-type: none"> • 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. ○ 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. • 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. • In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, 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.
5 and 6	<ul style="list-style-type: none"> • Students complete all MScSM program requirements with advanced standing of 1.0 FCE granted. 	<ul style="list-style-type: none"> • Conditions of admission to the MScSM program are removed. • 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">• Students complete an additional 8.0 FCEs towards the MScSM program requirements.	<ul style="list-style-type: none">○ Science electives: EES 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H.○ Management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, SSM 2010H, SSM 2020H.• The internship placement (SSM 1110H) will range from 2 to 4 months in length.
--	--	---

UTM, Environmental Management (Major), Honours Bachelor of Arts / Sustainability Management, Master of Science

UTM Env Mgt (Maj) HBA / MScSM: Introduction

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 Master of Science in Sustainability Management (MScSM) program in their final year of study.

Although there is no acceleration in time to completion in this CDP, 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 degree.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor
UTM, Honours Bachelor of Arts, Major in Environmental Management / Master of Science in Sustainability Management
Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=23
Email: sabrina.ferrari@utoronto.ca

Environmental Management Program
University of Toronto Mississauga
Web: https://student.utm.utoronto.ca/calendar/program_group.pl?Group_Id=23
Email: sabrina.ferrari@utoronto.ca
Rose Mary Craig, Program Coordinator

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

UTM Env Mgt (Maj) HBA / MScSM: Application Process

- Applicants apply to the Honours Bachelor of Arts (HBA) program, the MScSM program, and the CDP.
- Applicants must gain independent admission to both the HBA and MScSM programs before they may be considered for admission to the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study.
- Applicants apply and interview for early conditional admission to the MScSM program.

UTM Env Mgt (Maj) HBA / MScSM: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MScSM program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Environmental Management major program.
- Meet the admission requirements of the School of Graduate Studies and the MScSM program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have either completed or are currently enrolled in a minimum of 15.0 total full-course equivalents (FCEs).
 - Have a minimum annual grade point average (AGPA) of 3.7 in their most recent 5.0 FCEs.

To be given **full, unconditional admission to the MScSM program**, applicants must meet the following admission requirements:

- Be conferred with the HBA degree.
- Successfully complete 1.0 graduate FCE in MScSM courses.

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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • 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.
2	<ul style="list-style-type: none"> • 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 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. • Students apply to the CDP and MScSM program at the end of Year 3. Students accepted to the CDP will receive a conditional offer of admission to the MScSM program. • In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, 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.
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"> • Conditions of admission to the MScSM program are removed. • 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 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H. ◦ Management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, SSM 2010H, SSM 2020H. • The internship placement (SSM 1110H) will range from 2 to 4 months in length.

UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Phy (Spec) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Physics Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-physics-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Phy (Spec) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Physics (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Phy (Spec) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Physics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Chemical Engineering and Applied Chemistry, Master of Engineering

UTSC Env Phy (Spec Co-op) HBSc / Chem MEng: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering** is a five-year program. For a general description of CDPs, see [General Regulations section 1.4.3.](#)

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Chemical Engineering and Applied Chemistry, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Physics Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-physics-science>

Email: mmeriano@utsc.utoronto.ca

Chemical Engineering and Applied Chemistry Program

Faculty of Applied Science and Engineering

Web: <https://chem-eng.utoronto.ca/graduate-studies/why-cheme-u-of-t/>

Email: admissgrad.chemeng@utoronto.ca

UTSC Env Phy (Spec Co-op) HBSc / Chem MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Physics (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Phy (Spec Co-op) HBSc / Chem MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Physics specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Chemical Engineering and Applied Chemistry**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.
- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Chemical Engineering and Applied Chemistry Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Phy (Spec) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Physics Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-physics-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Phy (Spec) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Physics (Specialist) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Phy (Spec) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Physics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Civil Engineering, Master of Engineering

UTSC Env Phy (Spec Co-op) HBSc / Civ MEng: Introduction

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. For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Mandy Meriano

UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Civil Engineering, Master of Engineering

Web: <https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-engineering>

Email: mmeriano@utsc.utoronto.ca

Environmental Physics Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-physics-science>

Email: mmeriano@utsc.utoronto.ca

Civil Engineering Program

Faculty of Applied Science and Engineering

Web: <http://civmin.utoronto.ca/home/programs/graduate-programs/meng>

Email: graduateadmissions@civ.utoronto.ca

UTSC Env Phy (Spec Co-op) HBSc / Civ MEng: Application Process

- UTSC students in Year 3 of the Honours Bachelor of Science (HBSc) program in Environmental Physics (Specialist Co-op) who are interested in the CDP must contact [Professor M. Meriano](#) before the end of the Fall session.
- Qualified UTSC students will be able to apply to the CDP.
- UTSC students who are accepted to the CDP will receive a conditional offer to start the Master of Engineering (MEng) program upon completion of their HBSc program requirements.

UTSC Env Phy (Spec Co-op) HBSc / Civ MEng: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEng program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc program and Environmental Physics specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEng program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

To be given **full, unconditional admission to the MEng program in Civil Engineering**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their HBSc program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the HBSc degree requirements.

- Students who choose the option of taking up to 1.0 FCE in graduate courses in Year 4 must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements. • Between Years 4 and 5, eligible students may begin the MEng program in the Summer session. 	<ul style="list-style-type: none"> • Students are expected to carry a course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the CDP and may be offered conditional admission to the MEng program. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program must complete 1.0 FCE in prescribed undergraduate engineering courses offered by the Faculty of Applied Science and Engineering. These courses can be counted towards the completion of the HBSc degree requirements. • In Year 4, students who receive a conditional offer of admission to the CDP and MEng program may complete up to 1.0 FCE in graduate courses with the permission of the Civil Engineering Department; students are graded as graduate students and must achieve a minimum grade of B-. These courses can be counted towards the completion of the HBSc degree requirements and the MEng program and degree requirements.
5	<ul style="list-style-type: none"> • Remaining MEng program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Complete 5.0 FCEs in MEng courses. Students who have completed up to 1.0 FCE in MEng courses in Year 4 may subtract those courses from the total 5.0 FCEs required.

UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Phy (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>
Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-environmental-physics-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Phy (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Env Phy (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Physics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B- in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field:
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE;
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE;
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist in Environmental Physics. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Master of Environmental Science

UTSC Env Phy (Spec Co-op) HBS Sc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>
Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-environmental-physics-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Env Phy (Spec Co-op) HBS Sc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBS Sc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBS Sc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBS Sc program and degree requirements.

UTSC Env Phy (Spec Co-op) HBS Sc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBS Sc degree program and the Environmental Physics specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBS Sc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.5 FCEs) as part of the HBSc degree requirements:
 - EESC24H3 *Advanced Reading* (can be taken in Year 3 of the HBSc program);
 - EESD10Y3 *Research Project in Environmental Science*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B. in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field.
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE;
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE;
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist co-op in Environmental Physics. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ EESC24H3 <i>Advanced Reading</i> (0.5 FCE) and ○ EESD10Y3 <i>Research Project in Environmental Science</i> (1.0 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Environmental Physics (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Env Phy (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Environmental Physics / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Env Phy (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Phy (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Physics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Complete the requirements of their HBSc program.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Environmental Physics, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Environmental Physics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Environmental Physics (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Env Phy (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Environmental Physics / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Env Phy (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Env Phy (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Physics specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Environmental Physics, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Environmental Physics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science).. ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Environmental Science (Specialist), Honours Bachelor of Science / Sustainability Management, Master of Science

UTM Env Sci (Spec) HBSc / MScSM: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Environmental Science / Master of Science in Sustainability Management (MScSM)** 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 1.4.3](#).

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

Rose Mary Craig, Program Coordinator

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

UTM Env Sci (Spec) HBSc / MScSM: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, the MScSM program, and the CDP.
- Applicants must gain independent admission to both the HBSc and MScSM programs before they may be considered for admission to the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study.
- Applicants apply and interview for early conditional admission to the MScSM program.

UTM Env Sci (Spec) HBSc / MScSM: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MScSM program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Science specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MScSM program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have either completed or are currently enrolled in a minimum of 15.0 total full-course equivalents (FCEs);
 - Have a minimum annual grade point average (AGPA) of 3.7 in their most recent 5.0 FCEs.

To be given **full, unconditional admission to the MScSM program**, applicants must meet the following admission requirements:

- Be conferred with the HBSc degree.
- Successfully complete 1.0 graduate FCE in MScSM courses.

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	Progression	Specific Requirements
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 4.0 FCEs in core courses: <ul style="list-style-type: none"> ◦ Introduction: ENV100Y5 (1.0 FCE). ◦ Quantitative and Basic Science Foundation: 3.0 FCEs chosen from BIO152H5, BIO153H5, CHM110H5, CHM120H5, ERS120H5, GGR112H5, MAT134Y5, MAT135Y5, MAT137Y5, PHY135Y5, PHY136H5, PHY137H5.
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 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). ◦ 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,

		<p>GGR329H5, GGR333H5, GGR348H5, GGR349H5, GGR361H5, GGR365H5, GGR370H5, GGR418H5, GGR419H5, GGR420H5, GGR426H5, JGE378H5, HIS318H5, HIS319H5, MGT394H5, PHL273H5, PHL373H1, POL343Y5, SOC226H5, SOC339H5, SOC356H5, WRI375H5.</p> <ul style="list-style-type: none"> 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. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, 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.
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"> Conditions of admission to the MScSM program are removed. 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 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H. management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from 2 to 4 months in length.

UTM, Environmental Science (Major), Honours Bachelor of Science / Sustainability Management, Master of Science

UTM Env Sci (Maj) HBSc / MScSM: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Environmental Science / Master of Science in Sustainability Management (MScSM)** allows students to complete an undergraduate degree with an early conditional admission offer to the Master of Science in Sustainability Management program in their final year of study.

Although there is no acceleration in time to completion in this CDP, 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 1.4.3](#).

Contact

Sabrina Ferrari, Undergraduate Academic Counsellor
UTM, Honours Bachelor of Science, Major 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
Rose Mary Craig, Program Coordinator

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

UTM Env Sci (Maj) HBSc / MScSM: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc), the MScSM program, and the CDP.
- Applicants must gain independent admission to both the HBSc and MScSM programs before they may be considered for admission to the CDP.
- Applicants apply to the CDP at the end of Year 3 of undergraduate study.
- Applicants apply and interview for early conditional admission to the MScSM program.

UTM Env Sci (Maj) HBSc / MScSM: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MScSM program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Environmental Science major program.
- Meet the admission requirements of the School of Graduate Studies and the MScSM program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have either completed or are currently enrolled in a minimum of 15.0 total full-course equivalents (FCEs).
 - Have a minimum annual grade point average (AGPA) of 3.7 in their most recent 5.0 FCEs.

To be given **full, unconditional admission to the MScSM program**, applicants must meet the following admission requirements:

- Be conferred with the HBSc degree.
- Successfully complete 1.0 graduate FCE in MScSM courses.

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	Progression	Specific Requirements
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 and Basic Science Foundation: 2.0 FCEs chosen from BIO152H5, BIO153H5, CHM110H5, CHM120H5, ERS120H5, GGR112H5, MAT134Y5, MAT135Y5, MAT137Y5, PHY135Y5, PHY136H5, PHY137H5.
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 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.

		<ul style="list-style-type: none"> 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. In Year 4, students complete 1.0 FCE in MScSM courses, chosen from ECO 2908H, EES 1124H, EES 1125H, ENV 1002H, ENV 1704H, ENV 1707H, JPG 1407H, 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.
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"> Conditions of admission to the MScSM program are removed. 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 1117H, EES 1125H, ENV 1002H, ENV 1704H, JPG 1407H. Management electives: ECO 2908H, EES 1124H, ENV 1707H, MGT 2918H, SSM 2010H, SSM 2020H. The internship placement (SSM 1110H) will range from two to four months in length.

UTSC, Evolutionary Anthropology (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Evo Ant (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Evolutionary Anthropology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-evolutionary-anthropology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Evo Ant (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Evo Ant (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Evolutionary Anthropology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Evolutionary Anthropology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Evolutionary Anthropology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Evolutionary Anthropology (Major), Honours Bachelor of Science / Master of Teaching

UTSC Evo Ant (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Evolutionary Anthropology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-evolutionary-anthropology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Evo Ant (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Evo Ant (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Evolutionary Anthropology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Evolutionary Anthropology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Evolutionary Anthropology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Exceptionality in Human Learning (Specialist), Honours Bachelor of Science / Child Study and Education, Master of Arts

UTM EHL (Spec) HBSc / CSE MA: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Exceptionality in Human Learning / Child Study and Education, Master of Arts** is designed for students interested in studying human development and related areas, such as diversity and inclusion. Students may apply studies in these areas towards professional training leading to teacher certification.

This CDP permits the completion of both degrees in six years. One full graduate course (1.0 full-course equivalent [FCE]) can be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science, Specialist in Exceptionality in Human Learning / Child Study and Education, Master of Arts
www.oise.utoronto.ca/jics/ma-cse-program/combined-degree-programs

Honours Bachelor of Science Program, Specialist in Exceptionality in Human Learning
 Department of Psychology, University of Toronto Mississauga
 Prof. Stuart Kamenetsky, Undergraduate Director and Program Advisor
 Web: www.utm.utoronto.ca/psychology/welcome-psychology-utm
 Email: stuart.kamenetsky@utoronto.ca

Master of Arts Program
 Department of Applied Psychology and Human Development, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/jics/ma-cse-program
 Email: cse.program@utoronto.ca

UTM EHL (Spec) HBSc / CSE MA: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the Master of Arts (MA) program, and the CDP.
- Applicants must gain independent admission to both the HBSc and MA programs before they may be considered for admission to the CDP.

UTM EHL (Spec) HBSc / CSE MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Undergraduate courses in accordance with the U of T regulations for the Exceptionality in Human Learning (Specialist), HBSc program. 	<ul style="list-style-type: none"> • 5.0 full-course equivalents (FCEs) toward the HBSc program and degree requirements.

2	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Exceptionality in Human Learning (Specialist), HBSc program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements.
3	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Exceptionality in Human Learning (Specialist), HBSc program. Graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements. In the Winter session, students apply to the MA program. Upon conditional acceptance, they may apply to the CDP.
4	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Exceptionality in Human Learning (Specialist), HBSc program. 	<p>5.0 FCEs as follows:</p> <ul style="list-style-type: none"> 4.0 FCEs toward the HBSc program and degree requirements. 1.0 FCE in MA elective courses in the spring/summer between Year 3 and Year 4; this will be counted toward the overall requirements of the HBSc and MA degree requirements. This 1.0 FCE is chosen from among master's-level courses in the Department of Applied Psychology and Human Development (APHD) and, in some cases, other departments. Elective courses that are especially recommended for Child Study and Education students are listed in the APHD program guidelines. Students without an undergraduate course in child development must take APD 1201H <i>Child and Adolescent Development</i> as an elective. Upon degree conferral, students apply to the MA program in order to lift conditions of admission.
5 and 6	<ul style="list-style-type: none"> Remaining graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 10.0 FCEs in MA program requirements. See the Child Study and Education calendar entry for full course requirements. Note that students will have previously completed the 1.0 FCE in electives in the Spring and Summer sessions of Year 3 and Year 4 of the HBSc program.

UTM, Forensic Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTM For Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Forensic Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Forensic Biology
Forensic Science Program, University of Toronto Mississauga
Teresa Cabral, Academic Advisor
Web: www.utm.utoronto.ca/forensic/utm-forensic-science-news-updates
Email: teresa.cabral@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM For Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM For Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Forensic Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Forensic Biology, which fulfils the 6.0 FCEs required for Science-Biology or Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Forensic Biology, where the course requirements will fulfil 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Forensic Chemistry (Specialist), Honours Bachelor of Science / Master of Teaching

UTM For Chm (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Forensic Chemistry / Master of Teaching (MT)** is designed for students interested in studying the intersections of chemistry and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Forensic Chemistry
Forensic Science Program, University of Toronto Mississauga
Teresa Cabral, Academic Advisor
Web: www.utm.utoronto.ca/forensic/utm-forensic-science-news-updates
Email: teresa.cabral@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM For Chm (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM For Chm (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Forensic Chemistry specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Forensic Chemistry, which fulfils the 6.0 FCEs required for Science-Chemistry as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Forensic Chemistry, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three options: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which option is selected. For details, see the [MT calendar entry](#).

UTSC, French (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC Fre (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in French / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

UTSC, Honours Bachelor of Arts, Specialist in French / Master of Teaching

www.utsc.utoronto.ca/cfl/combined-degree-program-honours-bachelor-sciencebachelor-arts-and-master-teaching

Honours Bachelor of Arts Program

Centre for French & Linguistics, University of Toronto Scarborough

Web: www.utsc.utoronto.ca/cfl/

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program

Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Fre (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Fre (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:

- Have a B+ average or higher in Year 2.
- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in French, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in French, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, French (Specialist Co-op), Honours Bachelor of Arts / Master of Teaching

UTSC Fre (Spec Co-op) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist Co-op in French / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

UTSC, Honours Bachelor of Arts, Specialist Co-op in French / Master of Teaching
www.utsc.utoronto.ca/cfl/combined-degree-program-honours-bachelor-sciencebachelor-arts-and-master-teaching

Honours Bachelor of Arts Program
 Centre for French & Linguistics, University of Toronto Scarborough
 Web: www.utsc.utoronto.ca/cfl/
 Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTSC Fre (Spec Co-op) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Fre (Spec Co-op) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:

- Have a B+ average or higher in Year 2.
- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in French, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree includes: <ul style="list-style-type: none"> ○ the specialist co-op in French, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, French (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Fre (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in French / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

UTSC, Honours Bachelor of Arts, Major in French / Master of Teaching

www.utsc.utoronto.ca/cfl/combined-degree-program-honours-bachelor-sciencebachelor-arts-and-master-teaching

Honours Bachelor of Arts Program

Centre for French & Linguistics, University of Toronto Scarborough

Web: www.utsc.utoronto.ca/cfl/

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program

Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Fre (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Fre (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.

- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Successfully complete the major in French, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in French, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, French (Major Co-op), Honours Bachelor of Arts / Master of Teaching

UTSC Fre (Maj Co-op) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major Co-op in French / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

UTSC, Honours Bachelor of Arts, Major Co-op in French / Master of Teaching

www.utsc.utoronto.ca/cfl/combined-degree-program-honours-bachelor-sciencebachelor-arts-and-master-teaching

Honours Bachelor of Arts Program

Centre for French & Linguistics, University of Toronto Scarborough

Web: www.utsc.utoronto.ca/cfl/

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program

Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Fre (Maj Co-op) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Fre (Maj Co-op) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French major co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:

- Have a B+ average or higher in Year 2.
- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major co-op in French, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major co-op in French, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, French Studies (Specialist), Honours Bachelor of Arts / Master of Teaching

UTM Fre St (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Specialist in French Studies / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Arts Program, Specialist in French Studies
 Department of Language Studies, University of Toronto Mississauga
 Rosa Ciantar, Undergraduate Academic Counsellor
 Web: www.utm.utoronto.ca/language-studies/departement-language-studies
 Email: undergrad.langst@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Fre St (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTM Fre St (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French Studies specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in French Studies, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in French Studies, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, French Studies (Major), Honours Bachelor of Arts / Master of Teaching

UTM Fre St (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Major in French Studies / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Arts Program, Major in French Studies
 Department of Language Studies, University of Toronto Mississauga
 Rosa Ciantar, Undergraduate Academic Counsellor
 Web: www.utm.utoronto.ca/language-studies/departement-language-studies
 Email: undergrad.langst@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Fre St (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTM Fre St (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the French Studies major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in French Studies, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in French Studies, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCE in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Health Administration, Master of Health Science / Master of Social Work

STG HA MHSc / MSW: Introduction

Admissions to this combined degree program (CDP) have closed. The CDP will close on August 31, 2022.

Overview

The **Combined Degree Program (CDP): STG, Health Administration, Master of Health Science / Master of Social Work** students can 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.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

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

STG HA MHSc / MSW: Application Process

- Applicants must apply to the Master of Health Science (MHSc), program, the Master of Social Work (MSW) program, and the CDP.
- Students with a Bachelor of Social Work (BSW) from a recognized university may be admitted with advanced standing. They will complete the program in 2.5 years rather than 3 years without a bachelor's degree.
- Applicants gain independent admission to both the MHSc and MSW program before they may be considered for admission to the CDP. 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.

STG HA MHSc / MSW: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [MHSc program](#), the School of Graduate Studies, and the [MSW 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • MSW Year 1 program requirements. • Students entering with a BSW are exempt from the MSW Year 1 program requirements. 	<ul style="list-style-type: none"> • Complete 4.0 full-course equivalents (FCEs) in required social work courses. • Complete 0.5 FCE, the Year 1 social work extended practicum (SWK 4701H).
2 and 3	<ul style="list-style-type: none"> • MHSc program requirements. • MSW Year 2 program requirements. 	<ul style="list-style-type: none"> • Complete 10.0 FCEs in health administration including a minimum 1.0 FCE field placement.

		<ul style="list-style-type: none">• Select an MSW field of specialization and complete courses required for that field.• Complete 1.0 FCE, the Year 2 social work practicum (SWK 4702Y).• In Year 2, complete a minimum of 0.5 FCE elective in each academic session from either the MHSc or MSW program.
--	--	---

Program Length

3 years

Time Limit

4 years

STG, History (Major), Honours Bachelor of Arts / Master of Teaching

STG His (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Honours Bachelor of Arts, Major in History / Master of Teaching (MT)** is designed for students interested in studying the intersections of history and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE), St. George (STG) campus. They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Honours Bachelor of Arts, Major in History / Master of Teaching
www.vic.utoronto.ca/academic-programs/upper-year-programs/combined-degree-program-in-education/

Honours Bachelor of Arts Program
 Faculty of Arts and Science, Victoria College
 Web: www.vic.utoronto.ca
 Email: vic.academics@utoronto.ca

Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

STG His (Maj) HBA / MT: Application Process

- Applicants apply to the Honours Bachelor of Arts (HBA) program, then to the MT program and the CDP.
- In the Spring session of Year 3 of the HBA program, students apply for conditional admission to the MT program.

STG His (Maj) HBA / MT: Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the History major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA degree program:
 - Be registered in Year 3 of the HBA program.
 - Have an average grade equivalent to at least a B+, normally demonstrated by an average grade in Year 2.
- Have completed or be on course to complete the Education and Society minor program (Victoria College).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 full-course equivalents [FCEs] in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in History, which fulfils the 6.0 FCEs required for History as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the minor in Education and Society; ○ a minimum of 6.0 FCEs as part of the History major requirements, which will also qualify as prerequisite courses in the first teaching subject; and ○ a second minor, which will also qualify as the minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three options: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which option is selected. For details, see the [MT calendar entry](#).

UTSC, History (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC His (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in History / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/specialist-program-history-arts>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC His (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC His (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the History specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in History, which fulfils the 6.0 FCEs required for History as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in History, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, History (Major), Honours Bachelor of Arts / Master of Teaching

UTSC His (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in History / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/major-program-history-arts>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC His (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC His (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the History major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in History, which fulfils the 6.0 FCEs required for History as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in History, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Human Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Hum Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Human Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-human-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Hum Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Hum Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Human Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications](#) as specified by the MT program (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Human Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Human Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Human Biology (Major), Honours Bachelor of Science / Master of Teaching

UTSC Hum Bio (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Human Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-human-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Hum Bio (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Hum Bio (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Human Biology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Human Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Human Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Human Geography (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC Hum Ggr (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in Human Geography / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-human-geography-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Hum Ggr (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Hum Ggr (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Geography specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Geography, which fulfils the 6.0 FCEs required for Geography as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Geography, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Human Geography (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Hum Ggr (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in Human Geography / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-human-geography-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program

Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Hum Ggr (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Hum Ggr (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Geography major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Geography, which fulfils the 6.0 FCEs required for Geography as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Geography, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Master of Information / Master of Museum Studies

STG MI / MMSt: Introduction

Overview

The **Combined Degree Program (CDP): STG, Master of Information / Master of Museum Studies** is designed for students interested in museum informatics, digital cultural heritage, cultural information policy, the intersection of cultural memory institutions (libraries, archives, and museums), digital curation, and use of social networking technologies in museums. The CDP permits completion of both degrees in three years rather than the four years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Master of Information / Master of Museum Studies
ischool.utoronto.ca/areas-of-study/concurrent-registration-option

Master of Information Program
 Faculty of Information
 Email: admissions.ischool@utoronto.ca

Master of Museum Studies Program
 Faculty of Information
 Email: admissions.ischool@utoronto.ca

STG MI / MMSt: Application Process

- Applicants must apply to the Master of Information (MI) program, the Master of Museum Studies (MMSt) program, and the CDP.
- Students who have been accepted into both participating programs, with the permission of each Program Coordinator, may register concurrently in the MI and MMSt programs.
- Applicants must gain independent admission to both the MI and MMSt programs before they may be considered for admission to the CDP.

STG MI / MMSt: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [MI program](#), the [MMSt program](#), and the School of Graduate Studies.

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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> • Complete 5.0 full-course equivalents (FCEs) towards the MI program requirements. 	<p>General Program Pathway:</p> <ul style="list-style-type: none"> • 2.0 required FCEs as follows: INF 1001H, INF 1003H, INF 1005H, INF 1006H, and INF 1240H • 3.0 FCEs in electives. <p>Concentration Pathway:</p> <ul style="list-style-type: none"> • 0.5 core FCE as follows: INF 1005H and INF 1006H • 2.0 to 2.5 FCEs in courses required for the selected concentration • 2.0 to 2.5 FCEs in electives.

2	<ul style="list-style-type: none"> Complete 4.5 FCEs towards the MMSt program requirements. 	<p>General Program Pathway:</p> <ul style="list-style-type: none"> 2.0 required FCEs as follows: MSL 1150H, MSL 1230H, MSL 2231H, and MSL 2370H 0.5 FCE: MSL 2350H or INF 2040H MSL 4000Y (1.0 FCE) 1.0 FCE in electives. <p>Concentration Pathway:</p> <ul style="list-style-type: none"> 2.0 required FCEs as follows: MSL 1150H, MSL 1230H, MSL 2231H, and MSL 2370H 0.5 FCE: MSL 2350H or INF 2040H MSL 4000Y (1.0 FCE) 1.0 FCE in electives.
3	<ul style="list-style-type: none"> Complete 3.5 FCEs towards the MI and MMSt program requirements. 	<p>General Program Pathway:</p> <ul style="list-style-type: none"> 3.5 FCEs in electives. <p>Concentration Pathway:</p> <ul style="list-style-type: none"> 3.5 FCEs in courses remaining for the concentration, and electives.

Program Length

3 years

Time Limit

4 years

UTSC, Integrative Biology (Specialist), Honours Bachelor of Science / Master of Environmental Science

UTSC Int Bio (Spec) HBSc / MEnvSc: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Integrative Biology / Master of Environmental Science (MEnvSc)** is designed for students interested in studying the intersections of environmental sciences with professional experiential preparation in emerging environmental challenges.

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and a Master of Environmental Science degree. Distinct advantages include:

- early application to the MEnvSc program (in Year 3) and conditional admission to the MEnvSc program;
- addressing demand from undergraduate students for further training in order to improve their level of competence as environmental practitioners; and
- the opportunity to enrol in the MEnvSc program in the Summer session between Years 4 and 5 in order to complete either a two-month academic or internship training, in addition to the mandatory four-month academic or internship opportunity completed by students in the MEnvSc program alone.

This CDP permits the completion of both degrees in five years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

<https://utsc.calendar.utoronto.ca/combined-degree-programs-honours-bachelor-science-master-environmental-science>
Honours Bachelor of Science Program

University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-integrative-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Environmental Science Program

University of Toronto Scarborough

Web: <https://utsc.utoronto.ca/gradpes/programs-menvsc-0>

Email: gisela.bento@utoronto.ca

UTSC Int Bio (Spec) HBSc / MEnvSc: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MEnvSc program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MEnvSc program; those accepted will receive a conditional offer to start the MEnvSc program upon completion of their HBSc program and degree requirements.

UTSC Int Bio (Spec) HBSc / MEnvSc: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MEnvSc program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Integrative Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MEnvSc program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Complete the following undergraduate courses (1.0 FCE) as part of the HBSc degree requirements:
 - BIOC63H3 *Conservation Biology* and
 - BIOD54H3 *Applied Conservation Biology*.

To be given **full, unconditional admission to the MEnvSc program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses;
- Achieve at least a grade of B. in both of the graduate courses taken in Year 4 of undergraduate study, chosen in consultation with the graduate program supervisor, as indicated below for each MEnvSc field.
 - Climate Change Impacts and Adaptation field: EES 1133H *Climate Change Science and Modelling* plus an additional 0.5 FCE.
 - Conservation and Biodiversity field: EES 3002H *Conservation Policy* plus an additional 0.5 FCE.
 - Terrestrial and Aquatic Systems field: 1.0 FCE.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements
1 to 3	<ul style="list-style-type: none"> ● HBSc degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include the specialist in Integrative Biology. ● By the end of Year 3, students will select one of the three fields of study within the MEnvSc program at the time of application: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation; ○ Conservation and Biodiversity; or ○ Terrestrial and Aquatic Systems.
4	<ul style="list-style-type: none"> ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements, including specific undergraduate courses for the CDP. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. 	<ul style="list-style-type: none"> ● Students who receive a conditional offer of admission to the CDP must complete the following undergraduate courses: <ul style="list-style-type: none"> ○ BIOC63H3 <i>Conservation Biology</i> (0.5 FCE) and ○ BIOD54H3 <i>Applied Conservation Biology</i> (0.5 FCE). ● Students must complete 1.0 FCE in graduate courses, chosen in consultation with the graduate program supervisor, as follows: <ul style="list-style-type: none"> ○ Climate Change Impacts and Adaptation field: EES 1133H <i>Climate Change Science and Modelling</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Conservation and Biodiversity field: EES 3002H <i>Conservation Policy</i> (0.5 FCE) plus an elective (0.5 FCE); ○ Terrestrial and Aquatic Systems field: 1.0 FCE.
Optional registration in the Summer session prior to Year 5	<ul style="list-style-type: none"> ● Optional two-month academic or internship training. 	<ul style="list-style-type: none"> ● EES 4001H <i>Internship Training 1</i> (0.5 FCE) or EES 4003H <i>Academic Training 1</i> (0.5 FCE).
5	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MEnvSc program. 	<ul style="list-style-type: none"> ● Students registered in the optional Summer academic or internship training must complete 4.0 FCEs as follows: <ul style="list-style-type: none"> ○ coursework (2.0 FCEs) and internship (2.0 FCEs) or ○ coursework (2.5 FCEs) and research paper (1.5 FCEs). ● Students not registered in the optional Summer academic or internship training must complete 4.5 FCEs as follows: <ul style="list-style-type: none"> ○ internship option: coursework (2.5 FCEs) and internship (2.0 FCEs) or ○ research option: coursework (3.0 FCEs) and research paper (1.5 FCEs).

UTSC, Integrative Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Int Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Integrative Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-integrative-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Int Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Int Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Integrative Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Integrative Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Integrative Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Interactive Digital Media (Specialist), Honours Bachelor of Arts / Master of Information

UTM IDM (Spec) HBA / MI: Introduction

Effective January 1, 2020, this combined degree program is closed.

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; User Experience Design. Visit the program website for [more details on the concentrations](#).

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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/institute-communication-culture-information-and-technology
Email: iccit.utm@utoronto.ca

Master of Information Program
Faculty of Information
Web: <http://ischool.utoronto.ca/future-students/apply/mi-apply/>
Email: inquire@ischool.utoronto.ca

UTM IDM (Spec) HBA / MI: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MI program, and the CDP.
- Applicants must gain independent admission to both the HBA and MI programs before they may be considered for admission to the CDP.
- Qualified students in Year 3 of the HBA program may apply to the MI program; those accepted will receive a conditional offer to start the MI program when the HBA program requirements have been completed.

UTM IDM (Spec) HBA / MI: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBA program, the School of Graduate Studies, and the MI program.
- Students must be enrolled full-time in the HBA program and be in good standing in the HBA program with a cumulative grade point average (CGPA) of no less than 3.7 in Year 2. Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- For admission to the MI program, students must:
 - maintain an A- average (CGPA 3.7) or higher in Year 3 and Year 4 of the HBA program,
 - complete HBA program requirements, and
 - demonstrate HBA degree conferral.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • Complete 5.0 full-course equivalents (FCEs) each year towards the HBA degree. • In Year 4, complete 2.0 FCEs in Information courses, which count towards the HBA program requirements. 	<ul style="list-style-type: none"> • In Years 1 to 3, complete all 5.0 FCEs each year towards the HBA program requirements. • In Year 3 of the HBA program, receive a conditional offer of admission to the MI program. • In Years 3 and 4, complete any remaining HBA program requirements, with 2.0 FCEs taken from the MI program counting towards the overall HBA program requirements. Complete the 2.0 FCEs from the MI program as follows: INF 1005H and INF 1006H (0.25 FCE each), and 1.5 FCEs from one of the MI concentrations. For details on the concentrations, see the Information calendar entry or visit the Faculty of Information website.
5 and 6	<ul style="list-style-type: none"> • Students complete 6.0 FCEs in MI program requirements. 	<ul style="list-style-type: none"> • In Years 5 and 6, complete the remaining 6.0 FCEs required for the selected MI concentration. Please see the Information calendar entry for full course requirements.

STG, Kinesiology, Bachelor of Kinesiology / Master of Teaching

STG Kin BKin / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Bachelor of Kinesiology / Master of Teaching (MT)** is designed for students interested in studying the intersections of kinesiology and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a Bachelor of Kinesiology (BKin) degree from the Faculty of Kinesiology and Physical Education and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Kinesiology, Bachelor of Kinesiology / Master of Teaching

<https://kpe.utoronto.ca/academics-research/bachelor-kinesiology-bkin/combined-master-teaching-degree-program>

Bachelor of Kinesiology Program

Faculty of Kinesiology and Physical Education

Web: <https://kpe.utoronto.ca/academics-research/bachelor-kinesiology-bkin>

Email: undergrad.kpe@utoronto.ca

Master of Teaching Program

Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

STG Kin BKin / MT: Application Process

- Applicants apply to the BKin program, the MT program, and the CDP.
- Applicants may apply to the CDP in Year 3 of the BKin program for an early conditional admission to the MT program.

STG Kin BKin / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the BKin program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the BKin program:
 - Have a cumulative grade point average (CGPA) of between 3.15 and 3.49 or higher, normally demonstrated by an average grade in Year 2 of the BKin program.

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 full-course equivalents [FCEs] in the first teaching subject and a minimum of 1.0 FCE (or 2.0 FCEs where applicable) in the second teaching subject by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a CGPA of between 3.15 and 3.49 or higher in their final year of study in the BKin program.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete 6.0 FCEs in the first teaching subject (i.e., health and physical education).
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their BKin academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the BKin degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • BKin degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ a minimum of 6.0 FCEs in the first teaching subject (i.e., health and physical education); ○ a minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete 3.0 FCEs in the first teaching subject and 1.0 FCE in the second teaching subject. • In Year 4, students who receive a conditional offer of admission to the CDP complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the BKin and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ Note that the teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

*The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Language Teaching and Learning: French (Major), Honours Bachelor of Arts / Master of Teaching

UTM Lang Teach Learn Fre (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Major in Language Teaching and Learning: French / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Arts Program, Major in Language Teaching and Learning: French
 Department of Language Studies, University of Toronto Mississauga
 Rosa Ciantar, Undergraduate Academic Counsellor
 Web: www.utm.utoronto.ca/language-studies/departement-language-studies
 Email: undergrad.langst@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Lang Teach Learn Fre (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTM Lang Teach Learn Fre (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Language Teaching and Learning: French major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Language Teaching and Learning: French, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Language Teaching and Learning: French, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Language Teaching and Learning: French and Italian (Specialist), Honours Bachelor of Arts / Master of Teaching

UTM Lang Teach Learn Fre Ita (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Arts, Specialist in Language Teaching and Learning: French and Italian / Master of Teaching (MT)** is designed for students interested in studying the intersections of French and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Arts Program, Specialist in Language Teaching and Learning: French and Italian
 Department of Language Studies, University of Toronto Mississauga
 Rosa Ciantar, Undergraduate Academic Counsellor
 Web: www.utm.utoronto.ca/language-studies/departement-language-studies
 Email: undergrad.langst@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Lang Teach Learn Fre Ita (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTM Lang Teach Learn Fre Ita (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Language Teaching and Learning: French and Italian specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.

- Be enrolled full-time and in good standing in the HBA program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicate their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Language Teaching and Learning: French and Italian, which fulfils the 6.0 FCEs required for French (Second Language) as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ◦ the specialist in Language Teaching and Learning: French and Italian, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ◦ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Doctor of Philosophy

STG JD / Cri PhD: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Doctor of Philosophy** is designed for students interested in studying the intersections of law and criminology and sociolegal studies. The CDP permits the completion of both degrees in six years rather than the seven years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / Criminology and Sociolegal Studies, Doctor of Philosophy
www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdphd-criminology-and-sociolegal-studies
<https://criminology.utoronto.ca/programs/graduate/collaborative-programs/>

Juris Doctor Program
 Faculty of Law
 Email: law.admissions@utoronto.ca

Doctor of Philosophy Program in Criminology and Sociolegal Studies
 Centre for Criminology and Sociolegal Studies
 Email: audrey.macklin@utoronto.ca

STG JD / Cri PhD: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Criminology and Sociolegal Studies (Criminology and Sociolegal Studies) PhD program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and PhD programs.
- Applicants admitted to both the JD and PhD must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Cri PhD: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [PhD 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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Complete 2.0 full-course equivalents (FCEs) in Criminology and Sociolegal Studies.
3 and 4	<ul style="list-style-type: none"> • JD program requirements. • PhD program requirements. 	<ul style="list-style-type: none"> • Complete 45 JD credits. • Complete the PhD comprehensive exam and dissertation proposal. • Achieve candidacy by the end of Year 4.

5 and 6	<ul style="list-style-type: none">• PhD program requirements.	<ul style="list-style-type: none">• Complete any remaining PhD program requirements and a PhD thesis.
---------	---	---

STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Master of Arts

STG JD / Cri MA: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Criminology and Sociolegal Studies, Master of Arts** is designed for students who wish to pursue this interdisciplinary approach to the study of criminal justice and social regulation. The CDP permits the completion of both degrees in three years rather than the four years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / Criminology and Sociolegal Studies, Master of Arts
www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-criminology
criminology.utoronto.ca/programs/graduate/collaborative-programs/

Juris Doctor Program
 Faculty of Law
 Email: law.admissions@utoronto.ca

Master of Arts in Criminology and Sociolegal Studies Program
 Centre for Criminology and Sociolegal Studies
 Email: audrey.macklin@utoronto.ca

STG JD / Cri MA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Criminology and Sociolegal Studies MA program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and MA programs.
- Applicants admitted to both the JD and MA must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Cri MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2 and 3	<ul style="list-style-type: none"> • JD program requirements. • MA program requirements. 	<ul style="list-style-type: none"> • Complete 45 JD credits including a moot, an extended paper, a perspective course, and an international/comparative/transnational (ICT) course. • Complete 3.0 full-course equivalents (FCEs) toward the MA program requirements including CRI 2010H (0.5 FCE) and a course in theory or research methods. Students may choose to complete the continuous course CRI 3360Y <i>Research Paper</i> (1.0 FCE).

		<ul style="list-style-type: none">• Complete a minimum of 1.0 FCE with a CRI designation in each of Years 2 and 3, and a maximum of 2.0 FCEs in CRI courses per year. The number of JD credits completed each year will be adjusted accordingly, with the only requirement being that 45 credits are completed over the two years.
--	--	--

Program Length

3 years

Time Limit

4 years

STG, Law, Juris Doctor / Economics, Doctor of Philosophy

STG JD / Eco PhD: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Economics, Doctor of Philosophy** allows a student to complete all the requirements for the Juris Doctor (JD) program and all the requirements for the PhD program (except a dissertation) in four years rather than the five years it would take to acquire them independently. In Years 5 and 6, students will complete a dissertation.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / Economics, Doctor of Philosophy
www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdphd-economics
www.economics.utoronto.ca/index.php/index/graduate/jdphd

Juris Doctor Program
 Faculty of Law
 Email: law.admissions@utoronto.ca

Doctor of Philosophy in Economics Program
 Department of Economics
 Email: www.economics.utoronto.ca/index.php/index/index/contact

STG JD / Eco PhD: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Economics PhD program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and PhD programs.
- Applicants admitted to both the JD and PhD must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Eco PhD: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [PhD 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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Students normally complete ECO 1011H <i>Mathematics and Statistics for PhD Students</i> (0.5 full-course equivalent [FCE]; Credit/No Credit) plus 3.0 FCEs as follows: ECO 2020H and ECO 2030H, macroeconomics (ECO 2021H and ECO 2031H), and econometrics (ECO 2400H and ECO 2401H). • Complete theory comprehensive exams.
3	<ul style="list-style-type: none"> • PhD and JD program requirements. 	<ul style="list-style-type: none"> • Complete an additional 3.0 FCEs in economics courses including the required courses for a major field and minor field of specialization.

		<ul style="list-style-type: none"> • May be required to complete a field comprehensive exam in the major field of specialization. • Complete 0.5 FCE in law and economics. • Participate in the full-year continuous course ECO 4060Y <i>Graduate Research Seminar</i>. • Complete the Year 2 economics paper. • Complete 14 to 16 JD credit hours.
4	<ul style="list-style-type: none"> • JD program requirements. 	<ul style="list-style-type: none"> • Complete 28 to 32 JD credit hours including the extended paper requirement in law.
5 and 6	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Complete a PhD dissertation. • It is expected, but not required, that a student's dissertation committee will include a member of the Faculty of Law.

Program Length

6 years

Time Limit

8 years

STG, Law, Juris Doctor / Economics, Master of Arts

STG JD / Eco MA: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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.

The CDP permits the completion of both the Juris Doctor (JD) program and the eight-month MA program in three years rather than the four years it would take to acquire the degrees independently. (Note that this program cannot be combined with any of the collaborative specializations.)

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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

STG JD / Eco MA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Economics MA program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and MA programs.
- Applicants admitted to both the JD and MA must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Eco MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2, 3, and 4	<ul style="list-style-type: none"> • JD program requirements. • MA program requirements. 	<ul style="list-style-type: none"> • Complete 45 JD credits including a perspective course, a moot (compulsory or competitive), and an international/comparative/transnational (ICT) perspective course.

		<ul style="list-style-type: none"> • Complete ECO 1010H <i>Mathematics and Statistics for MA and MFE Students</i> (0.5 full-course equivalent [FCE]) plus 3.0 FCEs toward the MA program requirements including ECO 2060H, ECO 2061H, ECO 2408H, and ECO 3501H. • In Year 2, complete a minimum of 2.5 FCEs in economics, including ECO 1010H (note that this course starts in mid-August, three weeks earlier than other Fall courses in Economics).
--	--	---

Program Length

3 years

Time Limit

4 years

STG, Law, Juris Doctor / English, Master of Arts

STG JD / Eng MA: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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. The MA program in English must be completed by coursework, not by thesis.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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

STG JD / Eng MA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the English MA program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and MA programs.
- Applicants admitted to the JD and MA must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Eng MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2 and 3	<ul style="list-style-type: none"> • JD program requirements. • MA program requirements. 	<ul style="list-style-type: none"> • Complete 44 JD credits including a moot, an extended paper, a perspective course, and an international/comparative/transnational (ICT) course. Students graduating in 2017 or later must complete 45 JD credits.

		<ul style="list-style-type: none"> • 3.0 full-course equivalents (FCEs) toward the MA program requirements (1.5 FCE in each of Years 2 and 3) including ENG 6999Y, and at least 1.0 FCE in law and literature program courses. • Complete a JD Directed Research project (at least 3 JD credits) or an MA English reading course (0.5 FCE) on a topic related to law and literature.
--	--	--

Program Length

3 years

Time Limit

4 years

STG, Law, Juris Doctor / European and Russian Affairs, Master of Arts

STG JD / ERA MA: Introduction

Overview

Legal issues are at the forefront of the changes currently transforming Russia and Eastern Europe. The **Combined Degree Program (CDP): STG, Law, Juris Doctor / European and Russian Affairs, Master of Arts** enables students to combine their law degree with intensive study of this region. The CDP permits the completion of both degrees in four years rather than the five years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / European and Russian Affairs, Master of Arts
www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdma-russian

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: katia.malyuzhinets@utoronto.ca

STG JD / ERA MA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the European and Russian Affairs MA program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and MA programs.
- Applicants admitted to both the JD and MA must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / ERA MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • MA program requirements. 	<ul style="list-style-type: none"> • Complete a minimum of 2.0 FCEs toward the MA program.
2, 3, and 4	<ul style="list-style-type: none"> • JD program requirements. • MA program requirements. 	<ul style="list-style-type: none"> • Complete 45 JD credits including a perspective course, a moot (compulsory or competitive), and an international/comparative/transnational (ICT) perspective course. • Complete 5.0 FCEs toward the MA program requirements including ERE 2000Y and ERE 2001Y.

	<ul style="list-style-type: none"> Additional MA or JD program requirements chosen by the student. 	<ul style="list-style-type: none"> Before starting Year 4, demonstrate reading competence in one of the region's languages pertinent to the research undertaken for the major research paper in ERE 2000Y. Students choose to complete an additional: <ul style="list-style-type: none"> 1.0 FCE MA courses or 6 JD credits or 0.5 FCE MA course and 3 JD credits.
--	---	--

Program Length

4 years

Time Limit

5 years

STG, Law, Juris Doctor / Master of Business Administration

STG JD / MBA: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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 1.4.3](#).

Contact

Law, Juris Doctor / Management, 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

Juris Doctor Program
 Faculty of Law
 Email: law.admissions@utoronto.ca

Master of Business Administration Program
 Rotman School of Management
 Email: mba@rotman.utoronto.ca

STG JD / MBA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Master of Business Administration (MBA) program, and the CDP.
- Applicants must gain independent admission to both the JD and MBA programs before they may be considered for admission to the CDP. Alternatively, students in Year 1 of either the JD or Full-Time MBA program can apply to the CDP.
- 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.

STG JD / MBA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MBA 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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • Year 1 MBA program requirements. 	<ul style="list-style-type: none"> • Complete the required Year 1 courses of the MBA program, including 1.5 elective FCEs at the 2000 level.
3 and 4	<ul style="list-style-type: none"> • 2000-level MBA courses. • JD program requirements. 	<ul style="list-style-type: none"> • Complete 4.5 full-course equivalents (FCEs) in 2000-level MBA courses. • Complete RSM 1160H <i>Business Ethics</i> and the capstone course RSM 1213H <i>Model-Based Decision Making in Practice</i>.

	<ul style="list-style-type: none"> Complete the remaining MBA 1000-level required courses. 	<ul style="list-style-type: none"> Specific restrictions apply for students who wish to take MBA experiential learning courses. Please refer to the MBA program requirements for more information. Complete 45 JD credits including a perspective course, a moot, and an international/comparative/transnational (ICT) perspective course. At least 10 credits must be management related. Students should not take any courses outside the Faculty of Law or Rotman School except on an approved exchange program and with permission of both Faculties.
--	---	--

Program Length

4 years

Time Limit

5 years

STG, Law, Juris Doctor / Master of Global Affairs

STG JD / MGA: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Master of Global Affairs** is designed for students interested in studying the intersections of law and global affairs. The CDP permits the completion of both degrees in four years rather than the five years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / Master of Global Affairs

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmga-master-global-affairs
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 and Public Policy
 Email: mga@utoronto.ca

STG JD / MGA: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Master of Global Affairs (MGA) program, and the CDP.
- Applicants may be considered for the CDP after they have gained independent admission to the JD and MGA programs.
- Applicants admitted to both the JD and MGA must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / MGA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MGA 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • Year 1 MGA program requirements. • Required law course. 	<ul style="list-style-type: none"> • Complete required Year 1 MGA courses as follows: GLA 1001H, GLA 1003H, GLA 1005H, GLA 1009H, GLA 1010H, GLA 1011H, GLA 1012H, GLA 1014H. • Complete LAW 252H1 (0.5 full-course equivalent [FCE]) which will count towards the MGA program requirements. This course is graded on the graduate scale. • In the Summer session between Years 2 and 3, complete GLA 1007H <i>Global Internship</i>.
3 and 4	<ul style="list-style-type: none"> • MGA courses. • JD credits. 	<ul style="list-style-type: none"> • Complete 3.0 FCEs in 2000-level elective MGA courses. • Complete the required Year 2 course GLA 2000H (0.5 FCE).

		<ul style="list-style-type: none">• Complete 41 to 45 JD credits including all upper-year course requirements. At least 6 credits must be in the area of international law.
--	--	---

Program Length

4 years

Time Limit

5 years

STG, Law, Juris Doctor / Master of Information

STG JD / MI: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Master of Information** is designed for students who wish to combine graduate training in information studies with a degree in law. The CDP permits completion of both degrees in four years rather than the five years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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

Email: law.admissions@utoronto.ca

Master of Information Program

Faculty of Information

Email: admissions.ischool@utoronto.ca

STG JD / MI: Application Process

- Applicants must gain independent admission to both the Juris Doctor (JD) and Master of Information (MI) programs before they may be considered for admission to the CDP.
- Applicants admitted to both the JD and MI must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of either the JD or the MI program. Interested students should contact their home Faculty about this before applying to the CDP.

STG JD / MI: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MI 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law
2	<ul style="list-style-type: none"> • MI program requirements. 	<ul style="list-style-type: none"> • Complete 4.0 full-course equivalents (FCEs) in the MI program, and enrol in either the General Program Pathway or one or more concentration areas. See more information on required courses in the General Program Pathway or the concentration(s) of choice.
3 and 4	<ul style="list-style-type: none"> • JD program requirements. • MI program requirements. 	<ul style="list-style-type: none"> • Complete 45 JD credits including a moot, an extended paper, a perspective course, and an international/comparative/transnational (ICT) course. • Complete the remaining 4.0 FCEs in the MI program.

STG, Law, Juris Doctor / Master of Public Policy

STG JD / MPP: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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 completion of both degrees in four years rather than the five years it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Law, Juris Doctor / Master of Public Policy

www.law.utoronto.ca/academic-programs/jd/combined-programs/jdmpp-public-policy

munkschool.utoronto.ca/publicpolicy/programs/master-of-public-policy-program/mpp-jd-joint-program

Juris Doctor Program

Faculty of Law

Email: law.admissions@utoronto.ca

Master of Public Policy Program

Munk School of Global Affairs and Public Policy

Email: public.policy@utoronto.ca

STG JD / MPP: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Master of Public Policy (MPP) program, and the CDP.
- Applicants are considered for the CDP after they have secured independent admission to the JD and MPP programs.
- Applicants admitted to the JD and MPP must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / MPP: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MPP 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • Year 1 MPP program requirements, with the exception of PPG 1008H. 	<ul style="list-style-type: none"> • Complete Year 1 courses of the MPP program as follows: PPG 1000H, PPG 1001H, PPG 1002H, PPG 1003H, PPG 1004H, PPG 1005H, and PPG 1007H. • Substitute PPG 1008H with an equivalent Law course (0.5 full-course equivalent [FCE]) and obtain a minimum B+. • In the Summer session of Year 2, complete PPG 2006Y <i>MPP Internship</i>.
3 and 4	<ul style="list-style-type: none"> • MPP and JD program requirements. 	<ul style="list-style-type: none"> • Complete 2.0 FCEs in the MPP program: PPG 2002H, PPG 2003H, PPG 2008H, and either PPG 2011H or PPG 2022H. • In Year 3, complete a minimum of 1.0 FCE in the MPP program.

		<ul style="list-style-type: none">• In Years 3 and 4, complete a total of 41 to 45 JD credits, of which at least 18 credits are completed in Year 3. These include a perspective course, a moot (compulsory or competitive), and a Supervised Upper-Year Research Paper (SUYRP). Students graduating in 2017 or later will earn 45 JD credits.
--	--	--

STG, Law, Juris Doctor / Master of Social Work

STG JD / MSW: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Master of Social Work** combines the Faculty of Law's interdisciplinary teaching environment with its commitment to public interest law. The program is designed for 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). The CDP permits completion of both the Juris Doctor (JD) and Master of Social Work (MSW) degrees in four years rather than the five years it would take to acquire them independently.

Students who enter with a Bachelor of Social Work (BSW) will be given advanced standing and are exempted from completing Year 1 of the MSW. Therefore, they will 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 1.4.3](#).

Contact

Law, Juris Doctor / Master of Social Work

www.law.utoronto.ca/academic-programs/jd-program/combined-programs/jdmsw-social-work
socialwork.utoronto.ca/programs/msw/msw-combined-programs/

Juris Doctor Program
 Faculty of Law
 Email: law.admissions@utoronto.ca

Master of Social Work Program
 Factor-Inwentash Faculty of Social Work
 Email: michael.saini@utoronto.ca

STG JD / MSW: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the Master of Social Work (MSW) program, and the CDP.
- Applicants must gain independent admission to both the JD and MSW programs before they may be considered for admission to the CDP.
- Applicants admitted to the JD and MSW must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD or MSW program. Interested students should contact the Faculty of Law or Faculty of Social Work about this before applying to the CDP.

STG JD / MSW: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [MSW program](#).
- Students with a BSW from a recognized university may be admitted with advanced standing.

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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • Year 1 MSW program requirements. 	<ul style="list-style-type: none"> • Complete 4.0 full-course equivalents (FCEs) from the following Year 1 MSW courses: SWK 4102H, SWK 4103H, SWK 4105H, SWK 4107H,

	<ul style="list-style-type: none"> Alternatively, students who enter with a BSW (i.e., advanced standing) are exempt from Year 1 MSW requirements and may progress to the requirements of Years 3 and 4. 	<p>SWK 4510H, SWK 4602H, SWK 4605H, SWK 4654H, and SWK 4658H.</p> <ul style="list-style-type: none"> Complete the MSW Year 1 practicum (SWK 4701H).
3 and 4	<ul style="list-style-type: none"> Complete JD credits and MSW program requirements. 	<ul style="list-style-type: none"> Complete 32 JD credits including a moot, a perspective course, and an international/comparative/transnational (ICT) perspective course. Complete all course requirements for one of the MSW fields chosen from: <ul style="list-style-type: none"> Children and Their Families Social Justice and Diversity Health and Mental Health Social Service Administration Gerontology. Complete the Year 2 MSW practicum (SWK 4702Y) in Year 3 of the CDP. Advanced-standing students complete the Year 2 MSW practicum in Year 2 of the CDP. Complete 6 JD credits or 1.0 FCE in integrated courses: <ul style="list-style-type: none"> LAW 345Y1 (3 JD credits) plus a directed reading project (3 JD credits) or a directed reading course (3 JD credits) OR integrated law and social work courses (1.0 FCE).

Program Length

4 years

Time Limit

5 years

STG, Law, Juris Doctor / Philosophy, Doctor of Philosophy

STG JD / PhI PhD: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Philosophy, Doctor of Philosophy** enables students to pursue a deep investigation of the complex issues that lie at the intersection between law and philosophy. The CDP permits completion of both the Juris Doctor (JD) and PhD degrees one year sooner than it would take to acquire them independently. 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 1.4.3](#).

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
 Email: law.admissions@utoronto.ca

Doctor of Philosophy in Philosophy
 Department of Philosophy
 Email: m.opoku.pare@utoronto.ca

STG JD / PhI PhD: Application Process

- Applicants must apply to the JD program, the PhD (Philosophy) program, and the CDP.
- Applicants may be considered for the CDP after they have gained independent admission to both the JD and PhD programs.
- Only after admission has been secured from both departments will the coordinator advise the applicant of admission into the program.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / PhI PhD: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [PhD 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2 and 3	<ul style="list-style-type: none"> • JD program requirements. • PhD program requirements. 	<ul style="list-style-type: none"> • Complete 48 JD credits including a moot, a perspective course, and an international/comparative/transnational (ICT) perspective course. • 2.0 full-course equivalents (FCEs) in Philosophy courses, which will count as 8 JD credits toward the total JD credits required.
4	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Complete any remaining courses in the PhD program. • Complete area and language exams required for the PhD program.
5 and 6	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Complete any remaining PhD program requirements and a PhD thesis.

STG, Law, Juris Doctor / Political Science, Doctor of Philosophy

STG JD / Pol PhD: Introduction

Overview

The **Combined Degree Program (CDP): STG, Law, Juris Doctor / Political Science, Doctor of Philosophy** is designed for students interested in studying the intersection of law and political science. The CDP permits completion of both the Juris Doctor (JD) and PhD degrees at least one year sooner than it would take to acquire them independently.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

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

Email: law.admissions@utoronto.ca

Doctor of Philosophy Program in Political Science

Department of Political Science

Email: poligrad@utoronto.ca

STG JD / Pol PhD: Application Process

- Applicants must apply to the Juris Doctor (JD) program, the PhD (Political Science) program, and the CDP.
- Applicants may be considered for admission to the CDP after they have gained independent admission to both the JD and PhD programs.
- Applicants admitted to the JD and PhD must inform both programs of their status and request admission to the CDP.
 - Applicants may also be considered for the CDP while they are in Year 1 of the JD program. Interested students should contact the Faculty of Law about this before applying to the CDP.

STG JD / Pol PhD: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [JD program](#), the School of Graduate Studies, and the [PhD 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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> • Year 1 JD program requirements. 	<ul style="list-style-type: none"> • Complete all Year 1 courses of the JD program at the Faculty of Law.
2	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Students complete coursework and exams required for the PhD program. • Specific requirements will vary based on the student's choice of fields and whether a PhD student is admitted via direct entry.
3 and 4	<ul style="list-style-type: none"> • JD program requirements. 	<ul style="list-style-type: none"> • Complete 48 JD credits including the Directed Research Program. • Any language requirements for the PhD must be completed by the end of Year 4.
5 and 6	<ul style="list-style-type: none"> • PhD program requirements. 	<ul style="list-style-type: none"> • Complete any remaining PhD program requirements and also a PhD thesis.

STG, Management, Master of Business Administration / Master of Global Affairs

STG MBA / MGA: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Management, Master of Business Administration / Master of Global Affairs Program
Web: munkschool.utoronto.ca/mga/joint-degrees/master-of-global-affairs-mba

Master of Business Administration Program
Rotman School of Management
Email: lynda.paterson@rotman.utoronto.ca

Master of Global Affairs Program
Munk School of Global Affairs and Public Policy
Email: mga@utoronto.ca

STG MBA / MGA: Application Process

- Applicants must apply to the Master of Business Administration (MBA) program, the Master of Global Affairs (MGA) program, and the CDP.
- Applicants must gain independent admission to both the MBA and MGA programs before they may be considered for admission to the CDP. Alternatively, applicants may apply to the MBA program and CDP in Year 1 of the MGA program.

STG MBA / MGA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the School of Graduate Studies, the [MBA program](#), and the [MGA program](#).
- Applicants to the MBA program must meet the following admission requirements:
 - An appropriate bachelor's degree from a recognized university.
 - 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.
 - The minimum two-year work experience requirement will be waived for CDP applicants.
 - The Full-Time MBA program starts annually in August. Applicants to the full-time program are encouraged to apply as per the deadline dates (beginning in October with a final deadline in May).
- Applicants to the MGA program must meet the following admission requirements:
 - An appropriate bachelor's degree with a minimum standing in the final year equivalent to at least a University of Toronto B+.
 - The program is open to all disciplinary backgrounds.

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	Progression	Specific Requirements
1	<ul style="list-style-type: none"> 5.0 full-course equivalents (FCEs) in global affairs with a minimum B+ standing. 	<ul style="list-style-type: none"> 4.5 FCEs in global affairs: GLA 1001H, GLA 1003H, GLA 1005H, GLA 1006H, GLA 1009H, GLA 1010H, GLA 1011H, GLA 1012H, GLA 1014H. 0.5 FCE (GLA 1007H) to be taken in the Summer session.
2	<ul style="list-style-type: none"> 5.67 FCEs in management with a minimum B+ standing. 	<ul style="list-style-type: none"> 4.17 FCEs in management: RSM 1165H, RSM 1201H, RSM 1210H, RSM 1211H, RSM 1215H, RSM 1220H, RSM 1222H, RSM 1231H, RSM 1232H, RSM 1240H, RSM 1250H, RSM 1260H, RSM 1282H. 1.5 FCEs in management electives from the 2000-level MBA course list. Specific restrictions apply for students who wish to take MBA experiential learning courses. Please refer to the MBA program requirements for more information.
3	<ul style="list-style-type: none"> 3.0 FCEs in management. 3.0 FCEs in global affairs. 	<ul style="list-style-type: none"> 0.5 FCEs in management: RSM 1160H, RSM 1213H. 2.5 FCEs in management electives from the 2000-level MBA course list. 2.5 FCEs in global affairs electives. 0.5 FCE: GLA 2000H <i>Capstone Seminar</i> (required course).

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.

Program Length

3 years

Time Limit

4 years

UTSC, Management and Accounting (Specialist), Bachelor of Business Administration / Master of Accounting and Finance

UTSC Mgt Acc (Spec) BBA / MAccFin: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Bachelor of Business Administration (BBA), Specialist in Management and Accounting / Master of Accounting and Finance (MAccFin)** allows exceptional students who are registered in the Management and Accounting (Specialist) program to apply during Year 2 of their studies and be considered for admission to the MAccFin program. The CDP is designed for students with no prior work experience who are interested in pursuing careers in account management, wealth management, consultancy, and entrepreneurship.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Bachelor of Business Administration Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/mgmt/management-accounting
Email: mgmtss@utsc.utoronto.ca

Master of Accounting and Finance Program
University of Toronto Scarborough
Web: www.uoft.me/macccfin
Email: macccfin@utsc.utoronto.ca

UTSC Mgt Acc (Spec) BBA / MAccFin: Application Process

- Applicants must apply to the BBA program, the MAccFin program, and the CDP.
- Qualified students in Year 2 of their BBA program apply to the MAccFin program; those accepted will receive a conditional offer to start the MAccFin program upon completion of their BBA program and degree requirements.
 - Students may apply after they have completed up to 10.0 full-course equivalents (FCEs); however, students who have completed more than 10.0 FCEs may not be considered for admission to the program.
- Provide official transcripts.
- Provide at least two reference letters.
- Provide a resumé.
- Applicants will be scored on each admission requirement and then ranked based on their overall score. Top-ranked applicants will be invited for an interview.

UTSC Mgt Acc (Spec) BBA / MAccFin: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MAccFin program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the BBA degree program and the Management and Accounting specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MAccFin program.
- Be enrolled full-time and in good standing in the BBA program.
 - Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in Year 2.
 - Carry a full course load of 5.0 FCEs each year (i.e., complete 5.0 FCEs over three academic sessions: Fall, Winter, Summer).
- Complete all of the requirements of the Management and Accounting specialist program, with the following modifications:
 - MGEC08H3 *Economics of Markets and Financial Decision Making* replaces 1.0 FCE in C-level Economics courses;

- Students are exempted from MGE12H3 *Quantitative Methods in Economics II* and MGAD70H3 *Advanced Accounting Case Analysis: A Capstone Course*;
- Students must complete MGFD10H3 *Investments* (0.5 FCE in Finance courses);
- In the Summer session of Year 3 of their undergraduate studies, students must complete the following graduate courses; the 1.0 FCE in graduate courses will be graded as graduate courses, as per the [University Assessment and Grading Practices and Policy](#), 2020 (section B.4.1.2), and will count towards both the BBA degree and the MAccFin program and degree:
 - MAF 2001H *Economics and Quantitative Methods* (0.5 FCE);
 - MAF 2002H *Advanced Corporate Finance* (0.5 FCE).
- Students are required to complete all of the following advanced accounting courses, which are necessary for Chartered Professional Accountant (CPA) designation: MGAD20H3, MGAD40H3, MGAD45H3, MGAD50H3, and MGAD65H3.

To be given **full, unconditional admission to the MAccFin program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the BBA program or over upper-level (C- and D-level) courses.
- Students must have completed the following courses: MGAB02H3, MGAB03H3, MGAC01H3, MGFB10H3, and MGE11H3, and have achieved a minimum grade of C+ (65%) in each course and an overall average of B+ (77%) across the courses.
- Students must have successfully completed specific non-core courses as determined by their undergraduate degree, and must have successfully completed specific core courses with a minimum grade of C+ (65%) in each course and an overall average of B (73%) across all core courses.
- Be conferred with the BBA degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • BBA degree requirements. 	<ul style="list-style-type: none"> • Students must complete all BBA program requirements, with the modifications described above, and the degree requirements. • Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • By the end of the Summer session of Year 3, students who receive a conditional offer of admission to the CDP must complete MAF 2001H and MAF 2002H. These courses (1.0 FCE) are counted towards the completion of both the BBA degree and MAccFin degree. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements.
5 and 6	<ul style="list-style-type: none"> • Remaining MAccFin program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed following the student's graduation from the BBA program. • Sessions 1 to 4: students must complete the remaining 7.5 FCEs of the MAccFin program and degree requirements.

UTSC, Management and Accounting (Specialist Co-op), Bachelor of Business Administration / Master of Accounting and Finance

UTSC Mgt Acc (Spec Co-op) BBA / MAccFin: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Bachelor of Business Administration (BBA), Specialist Co-op in Management and Accounting / Master of Accounting and Finance (MAccFin)** allows exceptional students who are registered in the Management and Accounting (Specialist Co-op) program to apply during Year 2 of their studies and be considered for admission to the MAccFin program. The CDP is designed for students with no prior work experience who are interested in pursuing careers in account management, wealth management, consultancy, and entrepreneurship.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Bachelor of Business Administration Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/mgmt/management-accounting
Email: mgmtss@utsc.utoronto.ca

Master of Accounting and Finance Program
University of Toronto Scarborough
Web: www.uoft.me/macccfin
Email: macccfin@utsc.utoronto.ca

UTSC Mgt Acc (Spec Co-op) BBA / MAccFin: Application Process

- Applicants must apply to the BBA program, the MAccFin program, and the CDP.
- Qualified students in Year 2 of their BBA program apply to the MAccFin program; those accepted will receive a conditional offer to start the MAccFin program upon completion of their BBA program and degree requirements.
 - Students may apply after they have completed up to 10.0 full-course equivalents (FCEs); however, students who have completed more than 10.0 FCEs may not be considered for admission to the program.
- Provide official transcripts.
- Provide at least two reference letters.
- Provide a resumé.
- Applicants will be scored on each admission requirement and then ranked based on their overall score. Top-ranked applicants will be invited for an interview.

UTSC Mgt Acc (Spec Co-op) BBA / MAccFin: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MAccFin program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the BBA degree program and the Management and Accounting specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MAccFin program.
- Be enrolled full-time and in good standing in the BBA program.
 - Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in Year 2.
 - Carry a full course load of 5.0 FCEs each year (i.e., complete 5.0 FCEs over three academic sessions: Fall, Winter, Summer).
- Complete all of the requirements of the Management and Accounting specialist co-op program, with the following modifications:
 - MGEC08H3 *Economics of Markets and Financial Decision Making* replaces 1.0 FCE in C-level Economics courses;

- Students are exempted from MGE12H3 *Quantitative Methods in Economics II* and MGAD70H3 *Advanced Accounting Case Analysis: A Capstone Course*;
- Students must complete MGFD10H3 *Investments* (0.5 FCE in Finance courses);
- In the Summer session of Year 3 of their undergraduate studies, students must complete the following graduate courses; the 1.0 FCE in graduate courses will be graded as graduate courses, as per the [University Assessment and Grading Practices and Policy](#), 2020 (section B.4.1.2), and will count towards both the BBA degree and the MAccFin program and degree:
 - MAF 2001H *Economics and Quantitative Methods* (0.5 FCE);
 - MAF 2002H *Advanced Corporate Finance* (0.5 FCE).
- Students are required to complete all of the following advanced accounting courses, which are necessary for Chartered Professional Accountant (CPA) designation: MGAD20H3, MGAD40H3, MGAD45H3, MGAD50H3, and MGAD65H3.

To be given **full, unconditional admission to the MAccFin program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the BBA program or over upper-level (C- and D-level) courses.
- Students must have completed the following courses: MGAB02H3, MGAB03H3, MGAC01H3, MGFB10H3, and MGE11H3, and have achieved a minimum grade of C+ (65%) in each course and an overall average of B+ (77%) across the courses.
- Students must have successfully completed specific non-core courses as determined by their undergraduate degree, and must have successfully completed specific core courses with a minimum grade of C+ (65%) in each course and an overall average of B (73%) across all core courses.
- Be conferred with the BBA degree.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • BBA degree requirements. 	<ul style="list-style-type: none"> • Students must complete all BBA program requirements, with the modifications described above, and the degree requirements. • Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • By the end of the Summer session of Year 3, students who receive a conditional offer of admission to the CDP must complete MAF 2001H and MAF 2002H. These courses (1.0 FCE) are counted towards the completion of both the BBA degree and MAccFin degree. • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements.
5 and 6	<ul style="list-style-type: none"> • Remaining MAccFin program requirements. 	<ul style="list-style-type: none"> • Conditions of admission are removed following the student's graduation from the BBA program. • Sessions 1 to 4: students must complete the remaining 7.5 FCEs of the MAccFin program and degree requirements.

UTM, Mathematical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Mat Sci (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Mathematical Sciences / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Mathematical Sciences
 Department of Mathematical & Computational Sciences, University of Toronto Mississauga
 Prof. Maria Wesslen, Mathematics Faculty Advisor
 Web: www.utm.utoronto.ca/math-cs-stats
 Email: maria.wesslen@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Mat Sci (Spec) HBSc / MT: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, then to the MT program and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Mat Sci (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematical Sciences specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Have an average grade equivalent to at least a B+, normally demonstrated by an average grade in Year 2.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for two teaching subjects as follows:
 - Complete the specialist in Mathematical Sciences, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Mathematical Sciences, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject ¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Mathematical Sciences (Major), Honours Bachelor of Science / Master of Teaching

UTM Mat Sci (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Mathematical Sciences / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Major in Mathematical Sciences
 Department of Mathematical & Computational Sciences, University of Toronto Mississauga
 Prof. Maria Wesslen, Mathematics Faculty Advisor
 Web: www.utm.utoronto.ca/math-cs-stats
 Email: maria.wesslen@utoronto.ca

Master of Teaching Program
 Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

UTM Mat Sci (Maj) HBSc / MT: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, then to the MT program and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Mat Sci (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Mathematical Sciences major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 ((i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer])).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Mathematical Sciences, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Mathematical Sciences, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Mathematics (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Mat (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Mathematics / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/cms
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Mat (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mat (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Mathematics, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching](#) website for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Mathematics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Mathematics (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Mat (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Mathematics / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/cms
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Mat (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mat (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematics specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Mathematics, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Mathematics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science).. ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Mathematics (Major), Honours Bachelor of Science / Master of Teaching

STG Mat (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Honours Bachelor of Science, Major in Mathematics / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE), St. George (STG) campus. They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Honours Bachelor of Science, Major in Mathematics / Master of Teaching
www.vic.utoronto.ca/academic-programs/upper-year-programs/combined-degree-program-in-education/

Honours Bachelor of Science Program
 Faculty of Arts and Science, Victoria College
 Web: www.vic.utoronto.ca
 Email: vic.academics@utoronto.ca

Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

STG Mat (Maj) HBSc / MT: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, then to the MT program and the CDP.
- In the Spring session of Year 3 of the HBSc program, students apply for conditional admission to the MT program.

STG Mat (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematics major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc degree program:
 - Be registered in Year 3 of the HBSc program.

- Have a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in Year 2.
- Have completed or be on course to complete the Education and Society minor program (Victoria College).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Mathematics, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [MT program website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Mathematics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; ○ the minor in Education and Society; and ○ a second minor, which will also qualify as the minimum 3.0 FCEs required for the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Mathematics (Major), Honours Bachelor of Science / Master of Teaching

UTSC Mat (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Mathematics / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/cms
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Mat (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mat (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematics major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program.
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Mathematics, which fulfils the 6.0 FCEs required for Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Mathematics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Mathematics (Major Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Mat (Maj Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major Co-op in Mathematics / Master of Teaching (MT)** is designed for students interested in studying the intersections of math and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/cms
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Mat (Maj Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mat (Maj Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Mathematics major co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major co-op in Mathematics, which fulfils the 6.0 FCEs required for Science-Mathematics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in co-op in Mathematics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Medicine, Doctor of / Doctor of Philosophy

STG MD / PhD: Introduction

Overview

The **Combined Degree Program (CDP): STG, 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 1.4.3](#).

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

Contact

Doctor of Medicine / Doctor of Philosophy Program
Faculty of Medicine
Web: <https://md.utoronto.ca/>
Email: mdphd.program@utoronto.ca

STG MD / PhD: Requirements

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.

UTSC, Mental Health Studies (Specialist), Honours Bachelor of Science / Master of Social Work

UTSC MHS (Spec) HBSc / MSW: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Mental Health Studies / Master of Social Work (MSW)** provides a rich intellectual pathway for exceptional undergraduate students pursuing a career in social work. The CDP gives students access to social work research before they complete their 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 1.4.3](#).

Contact

Mental Health Studies (Specialist), Honours Bachelor of Science / Master of Social Work
socialwork.utoronto.ca/programs/msw/msw-combined-programs/

Honours Bachelor of Science Program
 Department of Psychology, University of Toronto Scarborough
 Web: www.utsc.utoronto.ca/psych/undergraduate
 Email: psychology-undergraduate@utsc.utoronto.ca

Master of Social Work Program
 Factor-Inwentash Faculty of Social Work
 Web: socialwork.utoronto.ca/programs/msw/
 Email: admissions.fsw@utoronto.ca

UTSC MHS (Spec) HBSc / MSW: Application Process

- Applicants must 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 upon completion of their HBSc program requirements.

UTSC MHS (Spec) HBSc / MSW: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MSW program.
- Applicants to 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- 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.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> HBSc degree requirements. 	<ul style="list-style-type: none"> Students must complete all HBSc program requirements and degree requirements. Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. In Year 3, qualified students may apply to the MSW program and the CDP and may be offered conditional admission. In Year 4, students who receive a conditional offer of admission to the CDP must complete 1.5 FCEs as follows: <ul style="list-style-type: none"> 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). UTSC D-level course PSYD37H3 <i>The Social Context of Mental Health and Illness</i> (0.5 FCE). By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements.
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"> Conditions of admission are removed. Students must complete 4.0 FCEs as follows: SWK 4102H, SWK 4103H, SWK 4105H, SWK 4107H, SWK 4510H, SWK 4602H, SWK 4605H, 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.
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.

UTSC, Mental Health Studies (Specialist Co-op), Honours Bachelor of Science / Master of Social Work

UTSC MHS (Spec Co-op) HBSc / MSW: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Mental Health Studies / Master of Social Work (MSW)** provides a rich intellectual pathway for exceptional undergraduate students pursuing a career in social work. The CDP gives students access to social work research before they complete their 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 1.4.3](#).

Contact

Honours Bachelor of Science Program
Department of Psychology, University of Toronto Scarborough
Web: www.utoronto.ca/psych/undergraduate
Email: psychology-undergraduate@utoronto.ca

Master of Social Work Program
Factor-Inwentash Faculty of Social Work
Web: socialwork.utoronto.ca/programs/msw/msw-combined-programs/
Email: admissions.fsw@utoronto.ca

UTSC MHS (Spec Co-op) HBSc / MSW: Application Process

- Applicants must apply to the Honours Bachelor of Science (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 upon completion of their HBSc program requirements.

UTSC MHS (Spec Co-op) HBSc / MSW: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MSW program.
- Applicants to 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- 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.

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	Progression	Specific Requirements
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • Work terms to fulfil the co-op requirement. 	<ul style="list-style-type: none"> • Students must complete all HBSc program requirements and degree requirements. • Students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) over the three academic sessions (Fall, Winter, Summer) of each year. • In Year 3, qualified students may apply to the MSW program and the CDP and may be offered conditional admission. • In Year 4, students who receive a conditional offer of admission to the CDP must complete 1.5 FCEs as follows: <ul style="list-style-type: none"> ○ 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). ○ UTSC D-level course PSYD37H3 <i>The Social Context of Mental Health and Illness</i> (0.5 FCE). • By the end of Year 4, fulfil both the undergraduate program requirements and the undergraduate degree requirements.
5	<ul style="list-style-type: none"> • MSW Year 1 program requirements. • Students must select a specialization. 	<ul style="list-style-type: none"> • Conditions of admission are removed. • Students must complete 4.0 FCEs as follows: SWK 4102H, SWK 4103H, SWK 4105H, SWK 4107H, SWK 4510H, SWK 4602H, SWK 4605H, SWK 4654H. • Students 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.
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*, or SWK 4622H and SWK 4632H, or 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>

UTM, Molecular Biology (Specialist), Honours Bachelor of Science / Master of Teaching

UTM Mol Bio (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Molecular Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of biology and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Specialist in Molecular Biology
Department of Biology, University of Toronto Mississauga
Diane Matias, Undergraduate Advisor
Web: www.utm.utoronto.ca/biology
Email: d.matias@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Mol Bio (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Mol Bio (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Molecular Biology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Molecular Biology, which fulfils the 6.0 FCEs required for Science-Biology, Science-Chemistry, or Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Molecular Biology, where the course requirements will fulfil 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.
¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.		
* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the MT calendar entry .		

UTSC, Molecular Biology and Biotechnology (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Mol Bio Biotech (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Molecular Biology and Biotechnology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-molecular-biology-and-biotechnology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Mol Bio Biotech (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mol Bio Biotech (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Molecular Biology and Biotechnology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications](#) as specified by the MT program (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Molecular Biology and Biotechnology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Molecular Biology and Biotechnology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Molecular Biology and Biotechnology (Specialist Co-op), Honours Bachelor of Science / Master of Teaching

UTSC Mol Bio Biotech (Spec Co-op) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist Co-op in Molecular Biology and Biotechnology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-co-operative-program-molecular-biology-and-biotechnology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Mol Bio Biotech (Spec Co-op) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Mol Bio Biotech (Spec Co-op) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Molecular Biology and Biotechnology specialist co-op program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications](#) as specified by the MT program (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist co-op in Molecular Biology and Biotechnology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist co-op in Molecular Biology and Biotechnology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Molecular Biology, Immunology and Disease (Major), Honours Bachelor of Science / Master of Teaching

UTSC Mol Bio Imm Dis (Maj) HBS Sc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Molecular Biology, Immunology and Disease / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-molecular-biology-immunology-and-disease-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Mol Bio Imm Dis (Maj) HBS Sc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBS Sc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBS Sc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBS Sc program and degree requirements.

UTSC Mol Bio Imm Dis (Maj) HBS Sc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBS Sc degree program and the Molecular Biology, Immunology and Disease major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBS Sc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications](#) as specified by the MT program (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Molecular Biology, Immunology and Disease, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Molecular Biology, Immunology and Disease, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Music Education (Stream), Bachelor of Music / Master of Teaching

STG Mus MusEd MusBac / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Bachelor of Music, Music, Stream in Music Education / Master of Teaching (MT)** is designed for Music Education students who are interested in pursuing a teaching career to gain early, conditional admission to the Master of Teaching program.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree and an accredited professional 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 1.4.3](#).

Contact

Bachelor of Music Program, Faculty of Music

Web: music.utoronto.ca/programs.php

Email: registrar.music@utoronto.ca

Master of Teaching Program, Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

STG Mus MusEd MusBac / MT: Application Process

- Applicants must apply to the Bachelor of Music (MusBac) program (Stream in Music Education), the MT program, and the CDP.
- Applicants must gain independent admission to both the MusBac (Stream in Music Education) and MT programs before they may be considered for admission to the CDP.

STG Mus MusEd MusBac / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the MusBac (Stream in Music Education) degree program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the MusBac (Stream in Music Education) program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.

- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On their resumé, applicants should 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the MusBac (Stream in Music Education) program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the MusBac (Stream in Music Education) program, which fulfils the 6.0 FCEs required for Music-Instrumental or Music-Vocal as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their MusBac (Stream in Music Education) academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the MusBac (Stream in Music Education) degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • MusBac (Stream in Music Education) degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ a minimum of 6.0 FCEs in the first teaching subject: Music-Instrumental or Music-Vocal; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the MusBac (Stream in Music Education) and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Pharmacy, Doctor of / Master of Business Administration

STG PharmD / MBA: Introduction

Overview

The Leslie Dan Faculty of Pharmacy (LDFP) and the Rotman School of Management offer the **Combined Degree Program (CDP): STG, Doctor of Pharmacy / Management, Master of Business Administration**. Unique in Canada, this CDP provides graduates with unparalleled opportunities for leadership within the health-care and pharmaceutical manufacturing sectors. The CDP permits completion of both the Doctor of Pharmacy (PharmD) and Full-Time Master of Business Administration (MBA) programs in less time than it would take to acquire them separately.

The CDP is only open to applicants who have completed a bachelor's degree (e.g., BA, BSc, BEng) prior to enrolling in the PharmD program and who have successfully completed admission requirements for entry to the Full-Time MBA program.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Doctor of Pharmacy / Management, Master of Business Administration
pharmacy.utoronto.ca/programs/pharmd-mba
www.rotman.utoronto.ca/Degrees/MastersPrograms/JointDegrees/PharmDMBA

Doctor of Pharmacy Program
 Leslie Dan Faculty of Pharmacy
 Web: pharmacy.utoronto.ca/programs/doctor-pharmacy-pharmd
 Email: pharmdmba@phm.utoronto.ca

Master of Business Administration Program
 Rotman School of Management
 Web: www.rotman.utoronto.ca/Degrees/MastersPrograms/MBAPrograms/FullTimeMBA
 Email: mba@rotman.utoronto.ca

STG PharmD / MBA: Application Process

- Applicants must apply to the PharmD program, the MBA program, and the CDP.
- Applicants may be considered for admission to the CDP after they have gained independent admission to both the PharmD and MBA programs.
- 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. There are five admission rounds, each with their own deadlines. Applicants to the CDP must apply in round 1 or 2 in order to be considered for admission.

STG PharmD / MBA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the [PharmD program](#), the School of Graduate Studies, and the [MBA program](#).
- Complete all required PharmD coursework and clinical rotations successfully prior to starting the MBA program.
- Apply the first session of coursework in the MBA program as fulfilling the elective requirement for the PharmD 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	Progression	Specific Requirements*
1 and 2	<ul style="list-style-type: none"> PharmD program requirements. Apply to the MBA program in Year 2. 	<ul style="list-style-type: none"> Complete Year 1 and Year 2 PharmD courses and gain acceptance to the MBA program. At the end of Year 2 in May, complete Early Practice Experience II (EPE II). Complete clinical rotation requirements including the Transitional Pharmacy Practice Experience I (TPPE I), a five-week CDP experiential education rotation that will generally run from late July to late August. This TPPE rotation satisfies PharmD clinical rotation requirements for the PharmD degree.
3	<ul style="list-style-type: none"> PharmD program requirements. 	<ul style="list-style-type: none"> Complete all required and elective PharmD courses for the Fall session. Students may choose to take PHM389 <i>Research Project</i>. In early January, complete an Experiential APPE Transition course before starting Advanced Pharmacy Practice Experience (APPE) rotations. From January to August, complete six APPE rotations organized by the Office of Experiential Education.
4 and 5	<ul style="list-style-type: none"> Final PharmD program requirements. MBA program requirements. 	<ul style="list-style-type: none"> MBA courses taken in the Fall session of Year 4 will count as electives toward the PharmD program requirements. Complete remaining MBA program requirements in the Winter session of Year 4 and Fall and Winter sessions of Year 5. Specific restrictions apply for students who wish to take MBA experiential learning courses. Please refer to the MBA program requirements for more information.

Program Length

5 years

Time Limit

6 years

UTSC, Physical and Mathematical Sciences (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Phy Mat Sci (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Physical and Mathematical Sciences / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Phy Mat Sci (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Phy Mat Sci (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Physical and Mathematical Sciences specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Physical and Mathematical Sciences, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● A minimum of 20.0 FCEs in undergraduate courses. This includes: <ul style="list-style-type: none"> ○ the specialist in Physical and Mathematical Sciences, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree (20.0 FCEs) and MT degree (10.0 FCEs).
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Physical Education and Health, Bachelor of Physical and Health Education / Master of Teaching

STG PEH BPHE / MT: Introduction

This combined degree program will close on August 31, 2025.

Overview

The **Combined Degree Program (CDP): STG, Bachelor of Physical and Health Education / Master of Teaching (MT)** is designed for students interested in studying the intersections of kinesiology and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a Bachelor of Physical and Health Education (BPHE) degree from the Faculty of Kinesiology and Physical Education and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Bachelor of Physical and Health Education Program
Faculty of Kinesiology and Physical Education
Web: <https://kpe.utoronto.ca>
Email: undergrad.kpe@utoronto.ca

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

STG PEH BPHE / MT: Application Process

- Applicants apply to the BPHE program, the MT program, and the CDP.
- Applicants may apply to the CDP in Year 3 of the BPHE program for an early conditional admission to the MT program.

STG PEH BPHE / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the BPHE program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the BPHE program.

- Have a cumulative grade point average (CGPA) of between 3.15 and 3.49 or higher, normally demonstrated by an average grade in Year 2 of the BPHE program.
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 full-course equivalents [FCEs] in the first teaching subject and a minimum of 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a CGPA of between 3.15 and 3.49 or higher in their final year of study in the BPHE program.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete 6.0 FCEs in the first teaching subject (i.e., health and physical education).
 - Complete a minimum of 3.0 FCEs in the second teaching subject. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their BKin academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the BPHE degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • BPHE degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ a minimum of 6.0 FCEs in the first teaching subject (i.e., health and physical education); ○ a minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the BPHE and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ Note that the teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

*The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Physics (Major), Honours Bachelor of Science / Master of Teaching

UTM Phy (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Physics / Master of Teaching (MT)** is designed for students interested in studying the intersections of physics and education. Students may apply studies in these areas towards professional training leading to teacher certification.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the University of Toronto Mississauga (UTM) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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 1.4.3](#).

Contact

Honours Bachelor of Science Program, Major in Physics
Department of Chemical & Physical Sciences, University of Toronto Mississauga
Christina Fortes, Academic Counsellor
Web: www.utm.utoronto.ca/cps
Email: christina.fortes@utoronto.ca

Master of Teaching Program
Department of Curriculum, Teaching and Learning, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTM Phy (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTM Phy (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Physics major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - 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 (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (CGPA of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Physics, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBSc degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Physics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Physics and Astrophysics (Specialist), Honours Bachelor of Science / Master of Teaching

UTSC Phy Ast (Spec) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Specialist in Physics and Astrophysics / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough
Web: www.utsc.utoronto.ca/physsci
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Phy Ast (Spec) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Phy Ast (Spec) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Physics and Astrophysics specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for two teaching subjects as follows:
 - Complete the specialist in Physics and Astrophysics, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Physics and Astrophysics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Physics and Astrophysics (Major), Honours Bachelor of Science / Master of Teaching

UTSC Phy Ast (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Physics and Astrophysics / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-physics-and-astrophysics-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Phy Ast (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Phy Ast (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Physics and Astrophysics major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Physics and Astrophysics, which fulfils the 6.0 FCEs required for Science-Physics as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Physics and Astrophysics, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Plant Biology (Major), Honours Bachelor of Science / Master of Teaching

UTSC Pla Bio (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Science, Major in Plant Biology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-plant-biology-science>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Pla Bio (Maj) HBSc / MT: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBSc degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBSc program and degree requirements.

UTSC Pla Bio (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Plant Biology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Plant Biology, which fulfils the 6.0 FCEs required for Science-Biology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBSc academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Plant Biology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTM, Psychology (Specialist), Honours Bachelor of Science / Child Study and Education, Master of Arts

UTM Psy (Spec) HBSc / CSE MA: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Specialist in Psychology / Child Study and Education, Master of Arts** is designed for students interested in studying human development and related areas, such as diversity and inclusion. Students may apply studies in these areas towards professional training leading to teacher certification.

This CDP permits the completion of both degrees in six years. One full graduate course (1.0 full-course equivalent [FCE]) can be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science, Specialist in Psychology / Child Study and Education, Master of Arts
www.oise.utoronto.ca/jics/ma-cse-program/combined-degree-programs

Honours Bachelor of Science Program, Specialist in Psychology
 Department of Psychology, University of Toronto Mississauga
 Prof. Stuart Kamenetsky, Undergraduate Director and Program Advisor
 Web: www.utm.utoronto.ca/psychology/welcome-psychology-utm
 Email: stuart.kamenetsky@utoronto.ca

Master of Arts Program
 Department of Applied Psychology and Human Development, Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/jics/ma-cse-program
 Email: cse.program@utoronto.ca

UTM Psy (Spec) HBSc / CSE MA: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the Master of Arts (MA) program, and the CDP.
- Applicants must gain independent admission to both the HBSc and MA programs before they may be considered for admission to the CDP.

UTM Psy (Spec) HBSc / CSE MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MA 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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Specialist), HBSc program. 	<ul style="list-style-type: none"> 5.0 full-course equivalents (FCEs) toward the HBSc program and degree requirements.
2	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Specialist), HBSc program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements.
3	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Specialist), HBSc program. Graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements. In the Winter session, students apply to the MA program. Upon conditional acceptance, they may apply to the CDP.
4	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Specialist), HBSc program. 	<p>5.0 FCEs as follows:</p> <ul style="list-style-type: none"> 4.0 FCEs toward the HBSc program and degree requirements. 1.0 FCE in MA elective courses in the spring and summer between Year 3 and Year 4; this will be counted toward the overall requirements of the HBSc and MA degree requirements. This 1.0 FCE is chosen from among master's-level courses in the Department of Applied Psychology and Human Development (APHD) and, in some cases, other departments. Elective courses that are especially recommended for Child Study and Education students are listed in the APHD program guidelines. Students without an undergraduate course in child development must take APD 1201H <i>Child and Adolescent Development</i> as an elective. Upon degree conferral, students apply to the MA program in order to lift conditions of admission.
5 and 6	<ul style="list-style-type: none"> Remaining graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 10.0 FCEs in MA program requirements. See the Child Study and Education calendar entry for full course requirements. Note that students will have previously completed the 1.0 FCE in electives in the Spring and Summer sessions of Year 3 and Year 4 of the HBSc program.

STG, Psychology (Major), Honours Bachelor of Science / Master of Teaching

STG Psy (Maj) HBSc / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Honours Bachelor of Science, Major in Psychology / Master of Teaching (MT)** is designed for students interested in studying the intersections of psychology and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE), St. George (STG) campus. They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Honours Bachelor of Science, Major in Psychology / Master of Teaching
www.vic.utoronto.ca/academic-programs/upper-year-programs/combined-degree-program-in-education/

Honours Bachelor of Science Program
 Faculty of Arts and Science, Victoria College
 Web: www.vic.utoronto.ca

Email: vic.academics@utoronto.ca
 Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

STG Psy (Maj) HBSc / MT: Application Process

- Applicants apply to the Honours Bachelor of Science (HBSc) program, then to the MT program and the CDP.
- In the Spring session of Year 3 of the HBSc program, students apply for conditional admission to the MT program.

STG Psy (Maj) HBSc / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBSc degree program and the Psychology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBSc degree program:

- Be registered in Year 3 of the HBSc program.
- Have an average grade equivalent to at least a B+, normally demonstrated by an average grade in Year 2.
- Have completed or be on course to complete the Education and Society minor program (Victoria College).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBSc program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Psychology, which fulfils the 6.0 FCEs required for Psychology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [MT program website](#) for more information.
- Be conferred with the HBSc degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBSc degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Psychology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; ○ the minor in Education and Society; and ○ a second minor, which will also qualify as the minimum 3.0 FCEs required for the second teaching subject¹. ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBSc and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.
¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.		
* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the MT calendar entry .		

UTM, Psychology (Major), Honours Bachelor of Science / Child Study and Education, Master of Arts

UTM Psy (Maj) HBSc / CSE MA: Introduction

Overview

The **Combined Degree Program (CDP): UTM, Honours Bachelor of Science, Major in Psychology / Child Study and Education, Master of Arts** is designed for students interested in studying human development and related areas, such as diversity and inclusion. Students may apply studies in these areas towards professional training leading to teacher certification.

This CDP permits the completion of both degrees in six years. One full graduate course (1.0 full-course equivalent [FCE]) can be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Science, Major in Psychology / Child Study and Education, Master of Arts

www.oise.utoronto.ca/jics/ma-cse-program/combined-degree-programs

Honours Bachelor of Science Program, Major in Psychology
Department of Psychology, University of Toronto Mississauga
Prof. Stuart Kamenetsky, Undergraduate Director and Program Advisor
Web: www.utm.utoronto.ca/psychology/welcome-psychology-utm
Email: stuart.kamenetsky@utoronto.ca

Master of Arts Program
Department of Applied Psychology and Human Development, Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/jics/ma-cse-program
Email: cse.program@utoronto.ca

UTM Psy (Maj) HBSc / CSE MA: Application Process

- Applicants must apply to the Honours Bachelor of Science (HBSc) program, the Master of Arts (MA) program, and the CDP.
- Applicants must gain independent admission to both the HBSc and MA programs before they may be considered for admission to the CDP.

UTM Psy (Maj) HBSc / CSE MA: Requirements

Minimum Admission Requirements

- Applicants must meet the admission requirements of the HBSc program, the School of Graduate Studies, and the MA 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	Progression	Specific Requirements*
1	<ul style="list-style-type: none"> • Undergraduate courses in accordance with the U of T regulations for the Psychology (Major), HBSc program. 	<ul style="list-style-type: none"> • 5.0 full-course equivalents (FCEs) toward the HBSc program and degree requirements.

2	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Major), HBSc program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements.
3	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Major), HBSc program. Graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 5.0 FCEs toward the HBSc program and degree requirements. In the Winter session, students apply to the MA program. Upon conditional acceptance, they may apply to the CDP.
4	<ul style="list-style-type: none"> Undergraduate courses in accordance with the U of T regulations for the Psychology (Major), HBSc program. 	<p>5.0 FCEs as follows:</p> <ul style="list-style-type: none"> 4.0 FCEs toward the HBSc program and degree requirements. 1.0 FCE in MA elective courses in the spring and summer between Year 3 and Year 4; this will be counted toward the overall requirements of the HBSc and MA degree requirements. This 1.0 FCE is chosen from among master's-level courses in the Department of Applied Psychology and Human Development (APHD) and, in some cases, other departments. Elective courses that are especially recommended for Child Study and Education students are listed in the APHD program guidelines. Students without an undergraduate course in child development must take APD 1201H <i>Child and Adolescent Development</i> as an elective. Upon degree conferral, students apply to the MA program in order to lift conditions of admission.
5 and 6	<ul style="list-style-type: none"> Remaining graduate courses in accordance with the U of T regulations for the MA program. 	<ul style="list-style-type: none"> 10.0 FCEs in MA program requirements. See the Child Study and Education calendar entry for full course requirements. Note that students will have previously completed the 1.0 FCE in electives in the Spring and Summer sessions of Year 3 and Year 4 of the HBSc program.

UTSC, Socio-Cultural Anthropology (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC Soc Ant (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in Socio-Cultural Anthropology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/specialist-program-socio-cultural-anthropology-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Soc Ant (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Soc Ant (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Socio-Cultural Anthropology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Socio-Cultural Anthropology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Socio-Cultural Anthropology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Socio-Cultural Anthropology (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Soc Ant (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in Socio-Cultural Anthropology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough

Web: <https://utsc.calendar.utoronto.ca/major-program-socio-cultural-anthropology-arts>

Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education

Web: www.oise.utoronto.ca/mt

Email: mtinfo@utoronto.ca

UTSC Soc Ant (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Soc Ant (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Socio-Cultural Anthropology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Socio-Cultural Anthropology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Socio-Cultural Anthropology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

STG, Sociology (Major), Honours Bachelor of Arts / Master of Teaching

STG Soc (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): STG, Honours Bachelor of Arts, Major in Sociology / Master of Teaching (MT)** is designed for students interested in studying the intersections of sociology and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn a bachelor's degree from the Faculty of Arts and Science and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE), St. George (STG) campus. They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

STG, Honours Bachelor of Arts, Major in Sociology / Master of Teaching
www.vic.utoronto.ca/academic-programs/upper-year-programs/combined-degree-program-in-education/

Honours Bachelor of Arts Program
 Faculty of Arts and Science, Victoria College
 Web: www.vic.utoronto.ca
 Email: vic.academics@utoronto.ca

Master of Teaching Program
 Ontario Institute for Studies in Education
 Web: www.oise.utoronto.ca/mt
 Email: mtinfo@utoronto.ca

STG Soc (Maj) HBA / MT: Application Process

- Applicants apply to the Honours Bachelor of Arts (HBA) program, then to the MT program and the CDP.
- In the Spring session of Year 3 of the HBA program, students apply for conditional admission to the MT program.

STG Soc (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Sociology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA degree program:
 - Be registered in Year 3 of the HBA program.

- Have an average grade equivalent to at least a B+, normally demonstrated by an average grade in Year 2.
- Have completed or be on course to complete the Education and Society minor program (Victoria College).
- Have completed at least half of the teaching subjects' prerequisite courses. i.e., 3.0 full-course equivalents [FCEs] in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average (cumulative grade point average [CGPA] of 3.3) or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which applicants are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Sociology, which fulfils the 6.0 FCEs required for Sociology as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the minor in Education and Society; ○ a minimum of 6.0 FCEs as part of the Sociology major requirements, which will also qualify as prerequisite courses in the first teaching subject; and ○ a second minor, which will also qualify as the minimum of 3.0 FCEs in the second teaching subject¹. • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.
¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.		
* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the MT calendar entry .		

UTSC, Sociology (Specialist), Honours Bachelor of Arts / Master of Teaching

UTSC Soc (Spec) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Specialist in Sociology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/specialist-program-sociology-arts>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Soc (Spec) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Soc (Spec) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Sociology specialist program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the specialist in Sociology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the specialist in Sociology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Sociology (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Soc (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in Sociology / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation. Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: <https://utsc.calendar.utoronto.ca/major-program-sociology-arts>
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Soc (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Soc (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Sociology major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.
 - Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).

- Have completed at least half the teaching subjects' prerequisite courses. i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Sociology, which fulfils the 6.0 FCEs required for Social Science-General as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> • HBA degree requirements. • In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. • By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> • The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Socio-Cultural Anthropology, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ • By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). • In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> • Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> • 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

UTSC, Theatre and Performance (Major), Honours Bachelor of Arts / Master of Teaching

UTSC Thtr Per (Maj) HBA / MT: Introduction

Overview

The **Combined Degree Program (CDP): UTSC, Honours Bachelor of Arts, Major in Theatre and Performance / Master of Teaching (MT)** is designed for students interested in studying the intersections of science and education, coupled with professional teacher preparation.

Applicants to the MT program must have strong content knowledge in two teaching subjects taught in Ontario schools regardless of the division they are applying to (see the admission requirements below for details).

Students earn an honours bachelor's degree from the University of Toronto Scarborough (UTSC) and an accredited professional Master of Teaching degree at the Ontario Institute for Studies in Education (OISE). They 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.

This CDP permits the completion of both degrees in six years with 1.0 credit (full-course equivalent [FCE]) that may be counted towards both the undergraduate and graduate degrees.

For a general description of CDPs, see [General Regulations section 1.4.3](#).

Contact

Honours Bachelor of Arts Program
University of Toronto Scarborough
Web: utsc.calendar.utoronto.ca/major-program-theatre-and-performance-arts
Email: marcelle.defreitas@utoronto.ca (Marcelle DeFreitas, Combined Degree Programs Coordinator)

Master of Teaching Program
Ontario Institute for Studies in Education
Web: www.oise.utoronto.ca/mt
Email: mtinfo@utoronto.ca

UTSC Thtr Per (Maj) HBA / MT: Application Process

- Applicants must apply to the Honours Bachelor of Arts (HBA) program, the MT program, and the CDP.
- Qualified students in Year 3 of their HBA degree program apply to the MT program; those accepted will receive a conditional offer to start the MT program upon completion of their HBA program and degree requirements.

UTSC Thtr Perf (Maj) HBA / MT: Requirements

Minimum Admission Requirements

To be considered for **conditional admission to the MT program and the CDP**, applicants must meet the following admission requirements:

- Be admitted to the HBA degree program and the Theatre and Performance major program.
- Meet the admission requirements of the School of Graduate Studies and the MT program.
- Be enrolled full-time and in good standing in the HBA program:
 - Have a B+ average or higher in Year 2.

- Carry a full course load of 5.0 full-course equivalents (FCEs) each year (i.e., complete a minimum of 5.0 FCEs over the three academic sessions [Fall, Winter, Summer]).
- Have completed at least half the teaching subjects' prerequisite courses . i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science) by the end of Year 3.
- Provide at least [two letters of reference](#).
- Provide a [Statement of Intent](#) indicating their preferred division (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. On 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.
- Meet [other qualifications as specified by the MT program](#) (a police record check, relevant teaching experiences, academic and professional references, and satisfying teaching subject prerequisites).

To be given **full, unconditional admission to the MT program**, applicants must meet the following admission requirements:

- Maintain a B+ average or higher in their final year of study in the HBA program or over upper-level (C- and D-level) courses.
- Achieve at least a B+ average in the 1.0 graduate FCE taken in Year 4.
- Regardless of the division to which they are applying (i.e., Primary/Junior, Junior/Intermediate, or Intermediate/Senior), complete the prerequisites for both the first and second teaching subjects as follows:
 - Complete the major in Theatre and Performance, which fulfils the 6.0 FCEs required for Dramatic Arts as a first teaching subject.
 - Complete a second teaching subject consisting of 3.0 FCEs. However, if students are pursuing French or a science as their second teaching subject, 6.0 FCEs are required.
 - Students should consult often with their HBA academic program supervisor to ensure they fulfil all the requirements of the CDP. Visit the [Master of Teaching website](#) for more information.
- Be conferred with the HBA degree.

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	Progression	Specific Requirements*
1 to 4	<ul style="list-style-type: none"> ● HBA degree requirements. ● In Year 4, complete 1.0 full-course equivalent (FCE) in graduate courses. ● By the end of Year 4, fulfil both the undergraduate program requirements and undergraduate degree requirements. 	<ul style="list-style-type: none"> ● The undergraduate degree will include: <ul style="list-style-type: none"> ○ the major in Theatre and Performance, where the course requirements will fulfil the 6.0 FCEs required for the first teaching subject; and ○ a minimum of 3.0 FCEs in the second teaching subject.¹ ● By the end of Year 3, complete at least half of the teaching subjects' prerequisite courses—i.e., 3.0 FCEs in the first teaching subject and 1.5 FCEs in the second teaching subject (or 3.0 FCEs if the second teaching subject is French or a science). ● In Year 4, students who receive a conditional offer of admission to the CDP must complete any two of the elective half courses recommended for CDP students. These courses (1.0 FCE) are counted towards the completion of both the HBA degree and MT degree programs.
5 and 6	<ul style="list-style-type: none"> ● Remaining courses from Year 1 and Year 2 of the MT program. 	<ul style="list-style-type: none"> ● 11.0 FCEs during Year 1 and Year 2 of the MT program.

¹ The teaching subjects French (Second Language), Science-Biology, Science-Chemistry, Science-Physics, and Science-General require a minimum of 6.0 FCEs in university courses regardless of whether these teaching subjects are first or second subject specializations.

* The MT program has three divisions: Primary/Junior, Junior/Intermediate, and Intermediate/Senior. The specific requirements vary based on which division is selected. For details, see the [MT calendar entry](#).

Collaborative Specializations

The School of Graduate Studies offers approximately 40 graduate collaborative specializations (CSs). This specialization 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 CS. Each CS is designed to allow a focus in the area of specialty. On successful completion of the specialization, the student receives a transcript notation indicating completion of the collaborative specialization, in addition to the degree.

Addiction Studies

Addiction Studies: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Counselling and Clinical Psychology](#) — MA, PhD

[Criminology and Sociolegal Studies](#) — MA, PhD

[Information](#) — PhD

[Medical Science](#) — MSc, PhD

[Nursing Science](#) — PhD

[Pharmaceutical Sciences](#) — MSc, PhD

[Pharmacology](#) — MSc, PhD

[Psychology](#) — MA, PhD

[Public Health Sciences](#) — MPH, MSc, PhD

[Social Work](#) — MSW, PhD

[Sociology](#) — MA, PhD

Overview

The graduate programs listed above, in collaboration with the Centre for Addiction and Mental Health and the Ontario Tobacco Research Unit, participate in the Collaborative Specialization in Addiction Studies at the University of Toronto. The purpose of the Addiction Studies specialization 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Addiction Studies" on their transcript.

Contact and Address

Web: www.dlsph.utoronto.ca/program/collaborative-specialization-in-addiction-studies

Hayley Hamilton, PhD
Scientist, Centre for Addiction and Mental Health
Associate Professor, Dalla Lana School of Public Health,
University of Toronto
33 Russell Street, Toronto, Ontario M5S 2S1
Telephone: 416-535-8501 ext. 36353
Hayley.Hamilton@camh.ca

Michael Chaiton, PhD
Associate Professor, Dalla Lana School of Public Health,
University of Toronto
33 Russell Street, Toronto, Ontario M5S 2S1
Telephone: 416-535-8501 ext. 34428
Michael.Chaiton@utoronto.ca

Addiction Studies: Master's Level

Admission Requirements

- Applicants must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. They must contact the collaborating professor within their graduate unit directly.

Specialization Requirements

- Students must meet all requirements of their home graduate unit in terms of coursework and thesis work, or equivalent.
- Master's students in the collaborative specialization 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 graduate unit, but normally involves, as appropriate, supervisory and examining professors from other disciplines represented in the collaborative specialization. In collaborating graduate units 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 graduate unit that do not have a thesis or equivalent requirement, students must take a third 0.5 FCE from the list of approved electives.

Addiction Studies: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. They must contact the collaborating professor within their graduate unit directly.

Specialization Requirements

- Doctoral students in the collaborative specialization 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 graduate unit 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 graduate unit, but normally involves, as appropriate, supervisory and examining professors from other disciplines represented in the collaborative specialization. In collaborating graduate units 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 graduate units that do not have a thesis or equivalent requirement, students must take a third 0.5 FCE from the list of approved electives.

Addiction Studies: Courses

Core Course

PAS 3700H	Multidisciplinary Aspects of Addiction
-----------	--

Elective Courses

APD 1291H	Addictive Behaviours: Approaches to Assessment and Intervention
CHL 5120H	Population Health Perspectives on Mental Health and Addictions
CHL 5417H	Tobacco and Health: From Cells to Society
CRI 2040H	Drugs and Crime
JPM 1005Y	Behavioural Pharmacology
MSC 1085H	Molecular Approaches to Mental Health and Addictions
PAS 3701H	Advanced Research Issues in Addictions
SOC 6123H	Sociology of Addiction
SWK 4616H	Drug Dependencies: Interventive Approaches

Aging, Palliative and Supportive Care Across the Life Course

Aging, Palliative and Supportive Care Across the Life Course: Introduction

Lead Faculty of the Collaborative Specialization

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
[Health Administration](#) — MHSc
[Health Policy, Management and Evaluation](#) — MSc, PhD
[Information](#) — MI, 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 Specialization 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 specialization offers students two options of study:

- aging and the life course;
- 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 Specialization in Aging, Palliative and Supportive Care Across the Life Course.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed

Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course" on their transcript.

Contact and Address

Web: www.aging.utoronto.ca
 Telephone: (416) 978-0377
 Email: aging@utoronto.ca

Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course
 University of Toronto
 Room 238, 246 Bloor Street West
 Toronto, Ontario M5S 1V4
 Canada

Aging, Palliative and Supportive Care Across the Life Course: 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 Specialization in Aging, Palliative and Supportive Care Across the Life Course.
- Applicants must forward the following to the committee of the Collaborative Specialization 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 course 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 Specialization in Aging, Palliative and Supportive Care Across the Life Course. These may be obtained from their home participating graduate unit.

Specialization Requirements

**Adult Education and Community Development;
 Anthropology;
 Counselling and Clinical Psychology;
 Counselling Psychology;
 Dentistry;
 Health Administration;
 Health Policy, Management and Evaluation;
 Information (Thesis and Co-op Options);
 Kinesiology;
 Medical Science;
 Music;**

**Nursing Science;
Pharmaceutical Sciences;
Psychology;
Public Health Sciences;
Rehabilitation Science;
Social Work;
Sociology;
Speech-Language Pathology;
Women and Gender Studies**

In addition to meeting the program requirements of their home graduate unit, students must complete:

- The core course (0.5 full-course equivalent [FCE]) for the chosen option (i.e., aging and the life course or palliative and supportive care).
- One elective course (0.5 FCE) from a) the chosen option's pre-approved elective list **or** b) the student's home graduate unit list of courses and/or other graduate-level elective courses, provided the focus of the student's assignments is in the area of this specialization (aging or palliative) and the course is approved by the specialization committee as a suitable elective.
- The major research paper, thesis, or practicum in the participating degree program will be on a topic in the chosen option of this specialization.

Specialization Requirements

Information (Coursework-Only Option)

In addition to meeting the program requirements of their home graduate unit, students must complete:

- The core course (0.5 full-course equivalent [FCE]) for the chosen option (i.e., aging and the life course or palliative and supportive care).
- Four elective courses (2.0 FCEs), one of which can be a practicum course, from a) the chosen option's pre-approved elective list **or** b) the student's home graduate unit list of courses and/or graduate-level elective courses, where the topic of the major paper or practicum field is in the area of the chosen specialization (aging or palliative). Courses not on the pre-approved list must be approved by the collaborative specialization director and/or committee, after consultation with the Information faculty member associated with the collaborative specialization and, as needed, the course instructor, to count towards the collaborative specialization requirements.

Specialization Requirements

Adult Education and Community Development

In addition to meeting the program requirements of their home graduate unit, students must complete:

- The core course (0.5 full-course equivalent [FCE]) for the chosen option (i.e., aging and the life course or palliative and supportive care).
- Two elective courses (1.0 FCE) from a) the chosen option's pre-approved elective list **or** b) the student's home graduate

unit list of courses and/or other graduate-level courses, provided the focus of the student's assignments is in the area of this specialization (aging or palliative) and the course is approved by the specialization committee as a suitable elective.

Aging, Palliative and Supportive Care Across the Life Course: 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 Specialization in Aging, Palliative and Supportive Care Across the Life Course.
- Applicants must forward the following to the collaborative specialization committee:
 - A copy of the School of Graduate Studies application form submitted to the participating graduate unit.
 - Copies of official undergraduate and graduate transcripts from all institutions previously or currently attended.
 - A resumé or curriculum vitae (CV).
 - A letter explaining how their course of study and specific research interests relate to either option 1 in aging and the life course, or option 2 in palliative and supportive care at the graduate level.
 - Two letters of reference.
- Students may use copies of official documents (i.e., application form and transcripts) for their application to the Collaborative Specialization in Aging, Palliative and Supportive Care Across the Life Course. These may be obtained from the participating home graduate unit.

Specialization Requirements

- In addition to meeting the program requirements of their home graduate unit, 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).

Aging, Palliative and Supportive Care Across the Life Course: Courses

Core Courses for Option 1: Aging and the Life Course

Master's Level

AGE 2000H	Principles of Aging
-----------	---------------------

Doctoral Level

AGE 3000H	Advanced Research Seminar in Aging and the Life Course (AGE 2000H is a prerequisite for entry into the doctoral level of the collaborative specialization)
-----------	---

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 specialization)
-----------	--

Elective Courses for Option 1 or 2

Special topics courses can be taken as part of the program requirements of this collaborative specialization. Students must check their home graduate unit's website for course availability in any given session.

AGE 2500H	Current Research Topics in Aging and the Life Course
DEN 1003Y	Preventive Dentistry
EXS 5501H	Physical Activity and Aging
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	Aphasia
SLP 1534Y	Motor Speech Disorders
SLP 2501H	Special Topics in Communication Disorders
SLP 2502Y	Specialized Study in Communication Disorders

SOC 6707H	Intermediate Data Analysis
SWK 4614H	Social Work Practice in Palliative Care (social work students only)
SWK 4618H	Special Issues in Gerontological Social Work
SWK 4634H	Family Practice Across the Life Cycle
SWK 4641H	Special Topics in Social Work in Gerontology
SWK 4803H	Special Studies III

Requests to approve other courses as equivalent to fulfil collaborative specialization requirements may be made to the collaborative specialization 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

HAD 5301H	Introduction to Clinical Epidemiology and Health Care Research
HAD 5730H	Economic Evaluation Methods for Health Service Research
HAD 5771H	Resource Allocation Ethics
MSC 1051H	Research Bioethics
MSC 1090H	Introduction to Computational Biostatistics with R
MSC 3003Y	Empirical Approaches in Bioethics
NUR 1021H	Nursing Ethics
NUR 1024H	Foundations of Qualitative Inquiry
NUR 1025H	Doing Qualitative Research: Design and Data Collection
NUR 1026H	Evaluating Interventions in Clinical Settings
NUR 1045H	Theories of Pain: Impact on the Individual, Family, and Society
NUR 1046H	Persistent Illness: Theoretical, Research, and Practice Implications
NUR 1050H	Coping With Illness
PHL 2145H	Bioethics
PHL 2146Y	Topics in Bioethics

Ancient and Medieval Philosophy

Ancient and Medieval Philosophy: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Classics](#) — PhD
[Medieval Studies](#) — PhD
[Philosophy](#) — PhD

Overview

The graduate units listed above participate in the Collaborative Specialization in Ancient and Medieval Philosophy. The three units contribute courses and provide facilities and supervision of doctoral research. Ancient and Medieval Philosophy operates only at the doctoral level. The specialization is administered by a 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 specialization must apply to and be admitted to both the doctoral program in one of the collaborating graduate units and the collaborative specialization. Upon successful completion of the doctoral degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation “Completed Collaborative Specialization in Ancient and Medieval Philosophy” on their transcript.

Interested students should contact the director and the graduate coordinator of the unit in which they intend to register.

Contact and Address

Web: <https://cpamp.utoronto.ca/>
 Email: rachel.barney@utoronto.ca
 Telephone: (416) 978-3178
 Fax: (416) 978-8703

Ancient and Medieval Philosophy: Doctoral Level

Admission Requirements

- All applicants must meet the admission criteria of the unit through which they wish to enrol.

Specialization 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 plan of study must also be approved by the collaborative specialization 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 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.

Ancient and Medieval Philosophy: Courses

Required Course

AMP 2000Y Collaborative Specialization in Ancient and Medieval Philosophy (CSAMP) Proseminar (Credit/No Credit)

Ancient Greek and Roman History

Ancient Greek and Roman History: Introduction

Effective September 2020, this collaborative specialization has closed.

Lead Faculty of the Collaborative Specialization

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 Specialization in Ancient Greek and Roman History**. 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 collaborative specialization operates only at the doctoral level.

Students are enrolled in one of the two units. The specialization is administered by a 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Ancient Greek and Roman History" on their transcript.

Interested applicants should contact the director of the joint collaborative specialization as well as the graduate coordinator of the unit in which they intend to register.

Contact and Address

University of Toronto

Web: classics.utoronto.ca
Email: grad.classics@utoronto.ca
Telephone: (416) 978-5513
Fax: (416) 978-7174

Joint Collaborative Specialization in Ancient Greek and Roman History
Department of Classics
University of Toronto
125 Queen's Park Crescent
Toronto, Ontario M5S 2C7
Canada

York University

Web: history.gradstudies.yorku.ca
Email: jedmond@yorku.ca
Telephone: (416) 736-5123
Fax: (416) 736-5836

Joint Collaborative Program in Ancient Greek and Roman History
Department of History
York University
2140 Vari Hall
Toronto, Ontario M3J 1P3
Canada

Ancient Greek and Roman History: Doctoral Level

Admission Requirements

- Applicants must meet the admissions criteria of the graduate unit through which they wish to enrol. Interested applicants register in the joint collaborative specialization with the approval of the collaborative specialization 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.

Specialization 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 graduate 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 graduate unit.
- The collaborative specialization committee approves the major and minor fields of all students in the joint collaborative specialization; 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 specialization in addition to those of their home unit.

Ancient Greek and Roman History: Courses

CLA 3020H	Research Methods in Ancient History (Credit/No Credit)
CLA 3200Y	Work in Progress in Ancient History (Credit/ No Credit)

Bioethics

Bioethics: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Health Administration](#) — MHS

[Health Policy, Management and Evaluation](#) — MSc, PhD

[Law](#) — LL.M., 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 Specialization 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 Specialization in Bioethics. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Bioethics" on their transcript.

Contact and Address

Web: jcb.utoronto.ca

Email: jcb.ea@utoronto.ca

Telephone: (416) 978-1906

Fax: (416) 978-1911

Collaborative Specialization in Bioethics
Joint Centre for Bioethics (JCB)
University of Toronto
Suite 754, 155 College Street
Toronto, Ontario M5T 1P8
Canada

Bioethics: Master's Level

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Students interested in the master's programs apply to both the collaborating graduate unit and the Collaborative Specialization in Bioethics. Applications for admission to the collaborative specialization 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 collaborative specialization at the contact above.
- Visit the [Collaborative Specialization in Bioethics' website](#) for the application form and details about supporting documentation. The application must be accompanied by:
 - 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 Collaborative Specialization in Bioethics at the contact above. The JCB website lists [faculty](#) and [bioethicists](#) who are available for advice relating to research proposals.

Specialization Requirements

- Students will be expected to meet the requirements of the home graduate unit as well as those of the Collaborative Specialization in Bioethics. Students should check with their home graduate program whether the collaborative specialization 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 Collaborative Specialization in Bioethics 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. Students in coursework-only degree programs must complete additional coursework in approved bioethics electives. For the Master of Laws (LLM) coursework-only option, 1.0 FCE in additional courses in bioethics are required.

Bioethics: Doctoral Level

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Students interested in the doctoral programs apply to both the collaborating graduate unit and the Collaborative Specialization in Bioethics. Applications for admission to the collaborative specialization 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 collaborative specialization at the contact above.
- Visit the [Collaborative Specialization Bioethics' website](#) for the application form and details about supporting documentation. The application must be accompanied by:
 - 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 Collaborative Specialization in Bioethics at the contact above. The JCB website lists [faculty](#) and [bioethicists](#) who are available for advice relating to research proposals.

Specialization Requirements

- Students will be expected to meet the requirements of the home graduate unit as well as those of the Collaborative Specialization in Bioethics. Students should check with their home graduate program whether the collaborative specialization 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 collaborative specialization 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 Collaborative Specialization in Bioethics 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.

Bioethics: Courses

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 and Health Policy
HAD 5306H	Introduction to Health Services Research and the Use of Health Administrative Data
HAD 5741H	Health Law and Ethics
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 graduate unit. 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	Health Law and Bioethics
LAW 388H	Public Health Law
LAW 582H	Privacy, Property, and the Human Body

Nursing Science

NUR 1021H	Nursing Ethics
-----------	----------------

Philosophy

PHL 2131H	Ethics
PHL 2132H	Seminar in Ethics
PHL 2133H	Topics in Ethics

Public Health Sciences

CHL 3001Y	Core Topics in Bioethics
CHL 3002Y	Teaching Bioethics
CHL 3003Y	Empirical Approaches in Bioethics
CHL 3004Y	Ethics and Health Institutions
CHL 3051H	Research Ethics
CHL 5121H	Genomics, Bioethics, and Public Policy
CHL 5401H	Epidemiology Methods I
JRH 514H	Public Health Ethics

Religion

RLG 2018H	Religion and Bioethics
-----------	------------------------

Social Work

SWK 6308H	Designing and Implementing Quantitative Social Work Research
-----------	--

Biomedical Engineering

Biomedical Engineering: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization in Biomedical Engineering at the University of Toronto. This specialization offers the opportunity for research in biomedical engineering leading to master's and doctoral degrees. The collaborative program is housed in the Institute of Biomedical Engineering (BME).

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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Biomedical Engineering" on their transcript.

Contact and Address

Web: ibbme.utoronto.ca/prospective-student/collaborative-specialization

Email: admissions.ibbme@utoronto.ca

Telephone: (416) 978-4841

Fax: (416) 978-4317

Collaborative Specialization in Biomedical Engineering
 Institute of Biomedical Engineering
 University of Toronto
 Rosebrugh Building, Room 407, 164 College Street
 Toronto, Ontario M5S 3G9 Canada

Biomedical Engineering: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- 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 Specialization in Biomedical Engineering through one of the collaborating graduate units (home graduate units) listed above.

Specialization Requirements

Students register in the School of Graduate Studies through their home graduate unit; they will meet all respective degree requirements as described by SGS and the collaborative specialization committee. As part of these requirements:

- The program of study for each MAsC or MSc degree student registered in the collaborative specialization must meet the requirements of the collaborating unit 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 1477H *Biomedical Engineering Project Design and Execution* 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* (0.0 FCE) and JDE 1000H *Ethics in Research* (0.0 FCE).
- Students are required to have a supervisory committee approved by the collaborative specialization committee and consisting of a supervisor from IBBME, with a cross-appointment in the home unit, and other members from other collaborating units as required.

- The examination committee will be constituted according to procedures in the home graduate unit and will include a member from that collaborating unit.

Biomedical Engineering: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- 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 Specialization in Biomedical Engineering through one of the collaborating graduate units (home graduate units) listed above.
- Before PhD students are accepted, the collaborative specialization committee must be satisfied with the applicant's ability to undertake advanced graduate studies.

Specialization Requirements

- A **qualifying examination** may be required by the collaborating unit.
- Students admitted to the collaborative specialization who are admitted to a PhD program in their home unit will be subject to the requirements of the collaborating unit. The plan of study for each PhD student registered in the Collaborative Specialization in Biomedical Engineering must be approved by the collaborating unit and the collaborative specialization committee; the plan of study 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 1477H *Biomedical Engineering Project Design and Execution* 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 (0.0 FCE), and JDE 1000H *Ethics in Research* (0.0 FCE).
- 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 unit. 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 unit and will include a member from that collaborating unit.

Biomedical Engineering: Courses

Not all courses are offered every year. Students should contact the BME office for details.

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 1453H	Cellular Systems Engineering
BME 1454H	Regenerative Medicine: Fundamentals and Applications
BME 1456H	Changing Health Care Technologies, People, and Places
BME 1457H	Biomedical Nanotechnology
BME 1459H	Protein Engineering
BME 1460H	Quantitative Fluorescence Microscopy: Theory and Application to Live Cell Imaging
BME 1477H	Biomedical Engineering Project Design and Execution
BME 1478H	Coding for Biomedical Engineers
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
ECE 1521H	Detection and Estimation Theory
ECE 1647H	Introduction to Nonlinear Control Systems
JCB 1349H	Molecular Assemblies: Structure/Function/Properties
JEB 1365H	Ultrasound: Theory and Applications in Biology and Medicine
JEB 1433H	Medical Imaging
JEB 1444H	Neural Engineering
JEB 1447H	Sensory Communications
JMB 1050H	Biological and Bio-inspired Materials
JNP 1017H*	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H*	Molecular and Biochemical Basis of 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 1007Y	Fundamentals in Molecular and Cell Biology
MBP 1022H	Advanced Cell Biology for Physical Scientists
MIE 1001H	Advanced Dynamics
MIE 1101H	Advanced Classical Thermodynamics
MIE 1201H	Advanced Fluid Mechanics I
MIE 1452H	Signal Processing for Bioengineering
MSE 1026H	Analytical Electron Microscopy
PHM 1109H	Recent Developments in Dosage Form Design
PSL 1432H	Theoretical Physiology
PSL 1452H	Fundamentals of Ion Channel Function
REH 1100H	Theory and Research in Rehabilitation Science

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

Book History and Print Culture

Book History and Print Culture: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Art History](#) — MA, PhD
[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
[Germanic Literature, Culture and Theory](#) — PhD
[History](#) — MA, PhD
[History and Philosophy of Science and Technology](#) — MA, PhD
[Information](#) — MI, PhD
[Italian Studies](#) — MA, 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 study 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 specialization, 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 graduate unit and then apply to the collaborative specialization. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Book History and Print Culture" on their transcript.

Contact and Address

Web: bhpctoronto.com
 Email: book.history@utoronto.ca
 Telephone: (416) 946-3560

Alan Galey, Director
 Collaborative Specialization in Book History and Print Culture
 University of Toronto
 Massey College, 4 Devonshire Place
 Toronto, Ontario M5S 2E1 Canada

Book History and Print Culture: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and one of the participating degree programs (home unit). Applicants to the collaborative specialization 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 plan 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 specialization. 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 BHPC office. Advice is available from the director and the collaborative specialization committee.
- Applications from the participating units have priority in admissions. If there is space in the collaborative specialization, students from other units may apply; they should consult the graduate coordinator in their home unit and the director of the BHPC specialization. Since course requirements vary from unit to unit, it is essential that there be close consultation between the collaborative specialization and the home unit at the time of the application.

Specialization Requirements

Art History;
Classics;
East Asian Studies (Thesis Option);
English (Creative Writing Field);
French Language and Literature;
Germanic Languages and Literature;
History;
History and Philosophy of Science and Technology;
Information (Thesis Option);
Medieval Studies (Thesis Option);
Museum Studies;
Religion

- 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 Year 1.
- The thesis or exhibition project (MSL 4000Y) in the participating degree program will be on a topic related to book history and print culture, approved by the collaborative specialization committee.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

Comparative Literature; East Asian Studies (Coursework-Only Option); English; Italian Studies; Medieval Studies (Coursework-Only Option); Spanish

- 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 Year 1.
- At least 0.5 FCE in additional elective courses related to book history and print culture.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

Information (Coursework-Only Option)

- 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 Year 1.
- At least 1.5 FCEs in additional elective courses related to book history and print culture.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

Music

- 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 Year 1.
- At least 1.0 FCE in additional elective courses related to book history and print culture.

- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Elective courses will come from the BHPC roster of cross-listed courses, though students may substitute other courses with the director's approval. Students are encouraged to take courses outside their home graduate unit, if possible.

Book History and Print Culture: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and one of the participating degree programs (home unit). Applicants to the collaborative specialization 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 plan 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 specialization. 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 BHPC office. Advice is available from the director and the collaborative specialization committee.
- Applications from the participating units have priority in admissions. If there is space in the collaborative specialization, students from other units may apply; they should consult the graduate coordinator in their home unit and the director of the BHPC specialization. Since course requirements vary from unit to unit, it is essential that there be close consultation between the collaborative specialization and the home unit at the time of the application.

Specialization Requirements

- Students must fulfil the degree requirements of the unit in which they are enrolled.
- The plan of study must also be approved by the BHPC specialization committee. The plan 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 collaborative specialization may be completed on a flexible-time basis only by Faculty of Information students registered for the Information flexible-time PhD.

Book History and Print Culture: Courses

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

Get further details and listings of [appropriate courses](#) in various graduate units.

Cardiovascular Sciences

Cardiovascular Sciences: Introduction

Lead Faculty of the Collaborative Specialization

Medicine

Participating Degree Programs

[Biomedical Engineering](#) — MSc, PhD
[Chemical Engineering and Applied Chemistry](#) — MSc, PhD
[Clinical Engineering](#) — MHSc
[Dentistry](#) — MSc, PhD
[Kinesiology](#) — 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 Specialization at the University of Toronto. Units participating in the collaborative specialization 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 specialization.

Students follow a plan of study acceptable to both the participating unit and the Cardiovascular Sciences specialization. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Cardiovascular Sciences" on their transcript.

Contact and Address

Web: www.cscp.utoronto.ca
 Email: cv.program@utoronto.ca
 Telephone: (416) 978-0746

Cardiovascular Sciences Collaborative Specialization
 University of Toronto
 Room 413, 4th Floor, 263 McCaul Street
 Toronto, Ontario M5T 1W7
 Canada

Cardiovascular Sciences: 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 Specialization.
- Acceptance by a supervisor who is a faculty member of the Cardiovascular Sciences Collaborative Specialization.
- Research area falls within the mandate of the Cardiovascular Sciences Collaborative Specialization.

Specialization 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 specialization. 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 Specialization.
- 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 specialization, and make one presentation during training. The presentation must demonstrate excellence in cardiovascular research.

Cardiovascular Sciences: 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 Specialization.
- Acceptance by a supervisor who is a faculty member of the Cardiovascular Sciences Collaborative Specialization.
- Research area falls within the mandate of the Cardiovascular Sciences Collaborative Specialization.

Specialization 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 specialization. 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 Specialization.
- Complete two half courses or 1.0 full-course equivalent (FCE) chosen from among the following seven courses: JCV 1060H, JCV 3060H, JCV 3061H, JCV 3062H, JCV 3063H, JCV 3064H, and JCV 3065H.

- Students must attend the annual Student Research Day each year they are in this collaborative specialization, and make one presentation during training. The presentation must demonstrate excellence in cardiovascular research.

Cardiovascular Sciences: Courses

Cardiovascular sciences courses offered by the participating units are listed below. Not all courses are offered each year. For course details, consult the [Cardiovascular Sciences 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 and the Cardiovascular System
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
JCV 3065H	Advanced Topics in Cardiovascular Sciences — Systems Biology
JEB 1365H	Ultrasound: Theory and Applications in Biology and Medicine
JTC 1331H	Biomaterials Science
PSL 1462H	Molecular Aspects of Cardiac Function

Community Development

Community Development: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Adult Education and Community Development](#) — MA, MEd
[Counselling and Clinical Psychology \(Clinical and Counselling Psychology field\)](#) — MA
[Counselling Psychology](#) — MEd
[Geography](#) — MA
[Planning](#) — MScPI
[Public Health Sciences](#) — MPH
[Social Work](#) — MSW

Overview

The Collaborative Specialization 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 specialization. Students must follow a course of study acceptable to both the home unit and the collaborative specialization. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Community Development" on their transcript.

Contact and Address

Web: www.dlsph.utoronto.ca/program/collaborative-specialization-in-community-development-cdcp
 Email: blake.poland@utoronto.ca
 Telephone: (416) 978-7542

Collaborative Specialization in Community Development
 Dalla Lana School of Public Health
 University of Toronto
 155 College Street, 6th Floor
 Toronto, Ontario M5T 3M7
 Canada

Community Development: Master's Level

Admission Requirements

- Collaborative specializations 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 Specialization in Community Development.
- Applicants must submit the following to the collaborative specialization committee:
 - 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 plan of study, your specific interests, and your career goals relate to community development (i.e., why you want to enrol in the Collaborative Specialization in Community Development); maximum length: 500 words. Include reference to any relevant experience (volunteer, work, education, etc.).

Specialization 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 Specialization in Community Development, students 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 specialization, to be approved by the collaborative specialization director, of which at least 0.5 FCE must be external to the student's 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 specialization. Or where required by the home degree program, a practicum placement with community development content as approved by the collaborative specialization director or 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.

Community Development: Courses

Core Course

UCS 1000H	Community Development
-----------	-----------------------

In addition to the core course (UCS 1000H), students must take an additional 1.0 FCE in the subject area of the collaborative specialization, to be approved by the collaborative specialization director. The following is a list of the currently approved courses; the list is reviewed annually and posted on the [Community Development website](#).

Adult Education

LHA 1102H	Community Development: Innovative Models
LHA 1104H	Social Action Education: Community Development, Social Services, and Social Movements
LHA 1182H	Nonprofits, Co-operatives, and the Social Economy: An Overview
LHA 1190H	Community Healing and Peacebuilding
LHA 1194H	Cyberliteracy, Adult Education, and Community Development
LHA 1196H	Walking Together, Talking Together: The Praxis of Reconciliation
LHA 3182H	Citizenship Learning and Participatory Democracy
LHA 5100H	Special Topics in Adult Education and Community Development: Master's Level (with approval of the Director)
LHA 6100H	Special Topics in Adult Education and Community Development: Doctoral Level (with approval of the Director)

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 4422H	Social Housing and Homelessness
SWK 4512H	Research Knowledge for Social Justice

Counselling Psychology

APD 1290H	Indigenous Healing in Counselling and Psychoeducation
-----------	---

Nursing

NUR 1047Y	Community Participation and Health
NUR 1083H	Comparative Politics of Health Policy in a Globalizing World

Planning

JPG 1507H	Housing Markets and Housing Policy Analysis
JPG 1512H	Place, Politics, and the Urban
JPG 1518H	Sustainability and Urban Communities
JPG 1615H	Planning the Social Economy
JPG 1812Y	Planning for Change: Community Development in Practice

Public Health Sciences

CHL 5126H	Building Community Resilience
CHL 7001H	Directed Reading

Social Work

SWK 4210H	Promoting Empowerment: Working at the Margins
-----------	---

Comparative, International and Development Education

Comparative, International and Development Education: Introduction

Lead Faculty of the Collaborative Specialization

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

[Adult Education and Community Development](#) — MA, MEd, PhD

[Curriculum and Pedagogy](#) — 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 specializations 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 including: economic, political, sociological, historical, and philosophical approaches taught alongside vibrant interpretations of feminist, critical, post-structuralist, and cultural theories.

The broad and diverse scope of the CIDE graduate specialization will appeal to both Canadian and international students interested in applying a comparative and international lens in their professional and scholarly work at home or abroad.

CIDE students can take courses in multiple fields within education, political science, feminist studies, sociology, and geography. The CIDE collaborative specialization is linked with events and programming at the Munk School of Global Affairs and Public Policy at the University of Toronto.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students receive the notation "Completed Collaborative Specialization 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

Collaborative Specialization in Comparative, International and Development Education
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

Comparative, International and Development Education: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. Applicants should apply to the appropriate degree program in one (or more) of the collaborating graduate units that corresponds most closely to their general background and interests.
- Applicants to the CIDE collaborative specialization are normally expected to have had at least one year of international or cross-cultural experience (includes Indigenous nation settings).
- 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 collaborative specialization at www.oise.utoronto.ca/cidec.

Specialization Requirements

- Individual student programs of study must meet the requirements of both the home graduate unit and the collaborative specialization. Normally, a careful selection of cross-listed 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 Year 1 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 graduate course.
 - 1.0 FCE (equivalent to two half courses) other core CIDE or elective graduate courses.
- Regular participation in and attendance at the CIDE Seminar Series. Participation at a minimum of five seminars is required; some may be attended live online.
- 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.

- 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 graduate unit must be represented on the thesis committee.

Comparative, International and Development Education: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. Applicants should apply to the appropriate degree program in one (or more) of the collaborating graduate units that corresponds most closely to their general background and interests.
- Applicants to the CIDE collaborative specialization are normally expected to have had at least one year of international or cross-cultural experience (includes Indigenous nation settings).
- 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 collaborative specialization at www.oise.utoronto.ca/cidec. They are strongly advised to contact one of the participating CIDE faculty members in their home graduate unit to discuss their research interests and goals.

Specialization Requirements

- Individual student programs of study must meet the requirements of both the home graduate unit and the collaborative specialization. Normally, a careful selection of cross-listed 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 Year 1 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 (in lieu, in addition to the requirements below) a 0.5 FCE course from the list of core courses, with approval from the CIDE Specialization Director at the time of course selection.
 - 0.5 FCE core CIDE graduate (preferably doctoral-level) course.
 - 1.0 FCE (equivalent to two half courses) additional core CIDE or elective graduate (preferably 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 is required; some may be attended live online.

- Completion of a thesis that contributes to the research/theory base of CIDE. Participating CIDE faculty and the home graduate unit must be represented on the thesis committee.

Comparative, International and Development Education: Courses

In addition to the courses listed here, a defined list of special topics courses, taught by CIDE participating faculty members in any of the participating graduate departments, can be taken to meet core or elective graduate course requirements for CIDE. Not all courses are offered each year. Visit the Comparative, International, and Development Education (CIDE) website 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 1006H	Transnational Perspectives on Democracy, Human Rights, and Democratic Education in an Era of Globalization
CIE 6000H	Special Topics in Comparative, International, and Development Education

Curriculum, Teaching and Learning

CTL 1037H	Teacher Development: Cross-Cultural and Cross-Cultural Perspectives
CTL 1060H	Education and Social Development
CTL 1312H	Democratic Citizenship Education
CTL 1319H	Religious Education: Comparative and International Perspectives
CTL 1330H	Education and Peacebuilding in Conflict Zones: International Comparative Perspectives
CTL 3015H	Seminar in Second-Language Literacy Education

Leadership, Higher and Adult Education

LHA 1016H	School Program Development and Implementation
LHA 1065H	Educational Equity and Excellence in International Comparison
LHA 1066H	Comparative and International Perspectives on Gender Education Policy and Practice (exclusion: CIE 6000H)
LHA 1146H	Women, War, and Learning
LHA 1806H	Systems of Higher Education
LHA 1807H	Strategic and Long-Range Planning for Postsecondary Systems
LHA 1825H	Comparative Education: Theory and Methodology
LHA 1826H	Comparative Higher Education

LHA 1846H	Internationalization of Higher Education in a Comparative Perspective
LHA 3104H	Adult Education and Marxism
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 1976H	Critical Media Literacy Education
SJE 3911H	Cultural Knowledges, Representation, and Colonial Education

Elective Courses

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 1063H	Pedagogies of Solidarity
CTL 1221H	Education for Human Goals Local and Global: How's Science Education Helping?
CTL 1307H	Identity Construction and Education of Minorities
CTL 1318H	Teaching Conflict and Conflict Resolution
CTL 1320H	Introduction to Aboriginal Land-Centered Education: Historical and Contemporary Perspectives
CTL 1321H	Aboriginal Civilization: Language, Culture, and Identity
CTL 1406H	The Origins of Modern Schooling: Issues in the Development of the North American Educational System
CTL 1430H	Gendered Colonialisms, Imperialisms, and Nationalisms in History
CTL 1819H	Multicultural Literature in the Schools: Critical Perspectives and Practices
CTL 3000H	Foundations of Bilingual and Multicultural Education
CTL 3007H	Discourse Analysis/Séminaire sur le langage et la communication
CTL 3008H	Critical Pedagogy, Language, and Cultural Diversity
CTL 3011H	Cognitive Sociolinguistic and Sociopolitical Orientations in Bilingual Education Research
CTL 3015H	Seminar in Second-Language Literacy Education
CTL 3018H	Language Planning and Policy/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 3805H	Multilingualism and Pluralism

Leadership, Higher and Adult Education

LHA 1029H	Special Applications of the Administrative Process
LHA 1047H	Managing Changes in Classroom Practice
LHA 1102H	Community Development: Innovative Models
LHA 1115H	Learning for the Global Economy
LHA 1142H	Young Adulthood in Crisis: Learning, Transitions, and Activism
LHA 1145H	Participatory Research in the Community and the Workplace
LHA 1147H	Women, Migration, and Work
LHA 1180H	Indigenous Worldviews: Implications for Education
LHA 1181H	Embodied Learning and Alternative Approaches to Community Wellness
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 2006H	Educational Finance and Economics (exclusion: students who have taken LHA 1017H or LHA 1841H are not eligible to take LHA 2006H)
LHA 3041H	Administrative Theory and Educational Problems II: Doctoral Seminar on Policy Issues in Education
LHA 3055H	Democratic Values, Student Engagement, and Democratic Leadership
JOI 3048H	Intermediate Statistics in Educational Research: Multiple Regression Analysis (RM)

Social Justice Education

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 3910H	Advanced Seminar on Race and Anti-Racism Research Methodology in Education
SJE 3912H	Race and Knowledge Production: Research Methods
SJE 3914H	Anti-Colonial Thought and Pedagogical Challenges
SJE 3915H	Franz Fanon and Education
SJE 3933H	Globalisation and Transnationality: Feminist Perspectives

Contemporary East and Southeast Asian Studies

Contemporary East and Southeast Asian Studies: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization in Contemporary East and Southeast Asian Studies (CESEAS) 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 collaborative specialization contributes to the development of an integrated and interdisciplinary research community in Contemporary East and Southeast Asian Studies at the University.

The graduate programs listed above participate in the Collaborative Specialization in CESEAS at the University of Toronto. The collaborating units contribute courses and provide facilities and supervision for master's-level research. This specialization is administered by a committee chaired by a director.

Applicants are expected to meet the admission and degree requirements of both their home unit and the collaborative specialization in Contemporary East and Southeast Asian Studies. The specialization 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Contemporary East and Southeast Asian Studies" on their transcript.

Contact and Address

Web: <https://munkschool.utoronto.ca/ai-maps>
 Email: asiapacific.ma@utoronto.ca
 Telephone: (416) 946-8832
 Fax: (416) 946-8838

Collaborative Master's Specialization in Contemporary East and Southeast Asian Studies
 Asian Institute, Munk School of Global Affairs and Public Policy
 University of Toronto
 1 Devonshire Place, Room 228N
 Toronto, Ontario M5S 3K7
 Canada

Contemporary East and Southeast Asian Studies: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- To be considered for admission to the collaborative specialization in Contemporary East and Southeast Asian Studies, applicants are expected to have completed coursework on Asia or have had relevant working or living experience in East or Southeast Asia.

Specialization Requirements

- Students must satisfy the degree requirements of both the home graduate unit and the collaborative specialization. This can be done concurrently with, or in addition to, home unit requirements.
- Attend the year-long, interdisciplinary core seminar ASI 1000Y *Issues in Asia-Pacific Studies* (1.0 full-course equivalent [FCE]). Topics vary from year to year.
- Complete 0.5 elective FCE on East or Southeast Asia, or in Asia-related courses within the home graduate unit or any other units (subject to approval from the collaborative specialization director).
- Complete a Major Research Paper, usually written in the context of a 0.5 FCE independent study course (e.g., ASI 1001H *Independent Research in Asia-Pacific Studies*). The Major Research Paper must address a topic on contemporary East and Southeast Asian Studies, and be based on original and in-depth research that goes beyond a normal seminar paper at the graduate level. The length is approximately 50-60 pages, although certain types of research might well be communicated in formats of shorter length. The Major Research Paper requirement can be met in the home graduate unit for a major research paper, as long as the topic is related to Asia and is approved by the collaborative specialization director. In rare cases when a student undertakes a master's thesis in a home unit, the additional Major Research Paper will be waived. Students must seek approval for topics and format from the collaborative specialization director.
- By the time of graduation from the master's degree program, every student is strongly encouraged to have a

working knowledge of an East or Southeast Asian language as needed for his or her course of study.

Contemporary East and Southeast Asian Studies: Courses

Course List

ASI 1001H	Independent Research in Contemporary East and Southeast Asian Studies
ASI 1000Y	Issues in Contemporary East and Southeast Asian Studies

Please consult the website for courses offered by participating graduate units.

Developmental Biology

Developmental Biology: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization in Developmental Biology. The objectives of the specialization are to:

- promote and foster excellence in developmental biology research in Toronto;
- provide a means for master's and PhD graduate students working on developmental biology projects to be exposed to a broad range of issues and approaches in modern developmental biology;
- provide a single, comprehensive, advanced PhD-level graduate course to complement a number of introductory courses provided by different graduate units;
- provide a forum for interaction between investigators in developmental biology in different graduate units via participation in student seminars, supervisory committees, journal clubs, retreats, and seminars/symposia.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Developmental Biology" on their transcript.

Contact and Address

Web: <http://devbio.utoronto.ca>

Email: bret.pearson@sickkids.ca

Telephone: (416) 813-7654 ext. 328370

Dr. Bret Pearson, Director
Collaborative Specialization in Developmental Biology
Department of Molecular Genetics, University of Toronto
Peter Gilgan Centre for Research and Learning
686 Bay Street, Room 18-9-712
Toronto, Ontario M5G 0A4 Canada

Developmental Biology: Master's Level

Admission Requirements

- Students who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.

Program Requirements

Students must:

- Be registered in the master's program of one of the participating graduate units and must be undertaking research in developmental biology under the supervision of a member of the collaborative specialization.
- Complete all degree program requirements of the participating graduate unit. In addition, they must complete the interdepartmental course JDB 1024Y.
- Complete an MSc thesis in the topic area of developmental biology.

Developmental Biology: Doctoral Level

Admission Requirements

- Students who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Prospective students should contact the collaborative specialization 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 graduate unit, and the collaborative specialization.
- Be registered in the doctoral program of one of the host graduate units and must be undertaking research in developmental biology under the supervision of a member of the collaborative specialization.
- Complete all degree requirements of the participating graduate unit. 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 graduate unit courses.
- Complete a PhD thesis in the topic area of developmental biology.

Developmental Biology: Courses

The following courses are offered every year:

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.

Development Policy and Power

Development Policy and Power: Introduction

Lead Faculty of the Collaborative Specialization

University of Toronto Scarborough

Participating Degree Programs

[Anthropology](#) — MA, MSc
[Environmental Science](#) — MEnvSc
[Geography](#) — MA
[Political Science](#) — MA
[Public Health Sciences](#) — MPH
[Sociology](#) — MA
[Social Justice Education](#) — MA, MEd

Supporting Unit

Centre for Critical Development Studies

Overview

The Collaborative Specialization in Development Policy and Power is designed to provide master's students with a critical and historicized understanding of the nature of some of the main policy debates within the field of international development. These include: power dynamics and their shifts over time within particular development policy domains at the global, national, and local levels of analysis; the role of the power struggles around development policy making in the processes of program design and implementation; and the ways in which these power struggles shape the institutionalization of policies that are equitable and social justice oriented.

In addition to examining contestations around the development field's major historical and theoretical threads, students will be immersed in thematic discussions around development policy fields such as: trade, financialization, and illicit financial flows; agriculture and land struggles; political ecology and extra-activism; the politics of sustainability and environmental survival; health governance and health inequities; displacement, immigration, and citizenship; foreign aid and South-South cooperation; indigenous, racial justice, and gender equity struggles; political economy of knowledge production; commodity booms, poverty reduction, and the exercise of state power; and neoliberal globalization and corporate power, and associated resistance and popular mobilization, writ large.

The graduate programs listed above participate in the Collaborative Specialization in Development Policy and Power at the University of Toronto. The collaborating graduate units contribute courses and provide facilities, support, and

supervision for master's-level research and practicum placements.

Upon successful completion of the master's degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Development Policy and Power" on their transcript.

Contact and Address

Centre for Critical Development Studies:

www.utsc.utoronto.ca/ccds

Development Policy and Power:

<https://ccdscsutoronto.wixsite.com/ccds>

Email: ccds-cs-ma@utsc.utoronto.ca

Telephone: (416) 287-7214

Collaborative Specialization in Development Policy and Power
 Centre for Critical Development Studies
 University of Toronto Scarborough
 1265 Military Trail
 Toronto, Ontario M1C 1A4
 Canada

Development Policy and Power: Master's Level

Admission Requirements

Applicants must:

- Meet the admission requirements of both the home graduate unit and the collaborative specialization.
- Be enrolled in, or applying to, a participating master's degree program.
- Submit a copy of the CV and reference letters submitted at the time of applying to their home graduate unit.
- Submit a one-page essay describing why and how their interests coincide with the Collaborative Specialization in Development Policy and Power.

Optional Preparation

- The Centre for Critical Development Studies will provide students interested in the collaborative specialization with a list of key background readings. Students with no critical development studies exposure through their undergraduate studies, a placement or internship, or relevant work experience are strongly encouraged to review all the material identified in the list. Students with a critical development background are encouraged to review the texts they have not been exposed to.

Specialization Requirements

Anthropology;
Geography;
Political Science (Political Economy of International Development and Political Science Fields);
Public Health (Health Promotion Field);

Social Justice Education (MA; MEd Coursework Plus Major Research Paper Option; MEd Coursework Plus Thesis Option); Sociology (Research Paper Option)

- Students must meet all the respective degree requirements of the School of Graduate Studies and the participating graduate unit.
- Students must meet the requirements of the collaborative specialization as follows:
 - IDS 1000H (0.5 full-course equivalent [FCE]): a core course meeting every other week throughout the academic year involving a mix of classes covering a substantive theme.
 - Participate regularly and actively in the *Development Policy and Power Seminar Series* SRM 3333H.
 - The major research paper, thesis, or practicum placement in the participating degree program will be on a topic in critical development studies, approved by the collaborative specialization committee.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

Social Justice Education (MEd Coursework Only Option)

- Students must meet all the respective degree requirements of the School of Graduate Studies and the participating graduate unit.
- Students must meet the requirements of the collaborative specialization as follows:
 - IDS 1000H (0.5 full-course equivalent [FCE]): a core course meeting every other week throughout the academic year involving a mix of classes covering a substantive theme.
 - Participate regularly and actively in the *Development Policy and Power Seminar Series* SRM 3333H.
 - 1.0 elective FCE related to development policy and power.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

Sociology (Coursework Only Option)

- Students must meet all the respective degree requirements of the School of Graduate Studies and the participating graduate unit.
- Students must meet the requirements of the collaborative specialization as follows:
 - IDS 1000H (0.5 full-course equivalent [FCE]): a core course meeting every other week throughout the academic year involving a mix of classes covering a substantive theme.
 - Participate regularly and actively in the *Development Policy and Power Seminar Series* SRM 3333H.
 - 0.5 elective FCE related to development policy and power.

- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MEnvSc (Research Paper Option)

- Students must meet all the respective degree requirements of the School of Graduate Studies and the participating graduate unit.
- Students must meet the requirements of the collaborative specialization as follows:
 - IDS 1000H (0.5 full-course equivalent [FCE]): a core course meeting every other week throughout the academic year involving a mix of classes covering a substantive theme. This course must be taken in addition to the 5.5 FCEs required for the MEnvSc program.
 - Participate regularly and actively in the *Development Policy and Power Seminar Series* SRM 3333H.
 - The major research paper in the participating degree program will be on a topic in critical development studies, approved by the collaborative specialization committee.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MEnvSc (Internship Option)

- Students must meet all the respective degree requirements of the School of Graduate Studies and the participating graduate unit.
- Students must meet the requirements of the collaborative specialization as follows:
 - IDS 1000H (0.5 full-course equivalent [FCE]): a core course meeting every other week throughout the academic year involving a mix of classes covering a substantive theme. This course must be taken in addition to the 5.5 FCEs required for the MEnvSc program.
 - Participate regularly and actively in the *Development Policy and Power Seminar Series* SRM 3333H.
 - 1.5 elective FCEs from the following: EES 1122H, EES 1134H, EES 1135H, EES 3002H.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Development Policy and Power: Courses

Core Courses

IDS 1000H	Development Policy and Power
SRM 3333H	Master's Seminar Series

Elective Courses by Graduate Unit

These courses may have prerequisites and enrolment limits and may not be offered every year. Students may take courses not listed here with approval of the collaboration specialization director.

Anthropology

ANT 6019H	Anthropology of Neoliberalism
ANT 7002H	Medical Anthropology II

Comparative, International and Development Education

CIE 1001H	Introduction to 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 1060H	Education and Social Development
-----------	----------------------------------

Geography and Planning

GGR 1807H	Special Topics: Geographies of Postcoloniality and Development, Exploring the 'Infrastructure Turn'
JPG 1426H	Natural Resources, Differences, and Conflict
JPG 1429H	Political Ecology of Food and Agriculture
JPG 1502H	Global Urbanism and Cities of the Global South
JPG 1520H	Contested Geographies of Class Formation
JPG 1706H	Violence and Security

Leadership, Higher and Adult Education

LHA 1104H	Social Action Education: Community Development, Social Services, and Social Movements
-----------	---

Physical and Environmental Sciences

EES 1122H	Global Environmental Security and Sustainable Development
EES 1134H	Climate Change Policy
EES 1135H	Environmental Change and Human Health
EES 3002H	Conservation Policy

Political Science

POL 2205H	Topics in International Politics I
POL 2212H	Human Rights Politics and International Relations
POL 2226H	Ethics and International Relations
POL 2322H	Topics in Comparative Politics II

POL 2345H	Politics of Growth in Developing Countries
POL 2351H	Contentious Politics
POL 2361H	Globalization and Indigenous Politics
POL 2391H	Topics in International Politics III
POL 2392H	Topics in International Politics IV
POL 2405H	Topics in Latin American Politics
POL 2418H	Topics in Middle East Politics
POL 2408H	Political Economy of International Development

Public Health Sciences

CHL 5113H	Global Migration and Health
CHL 5702H	History of International Health
CHL 8001H	Selected Topics in Public Health Issues

Social Justice Education

SJE 1909H	Environmental Sustainability and Social Justice 1
SJE 1954H	Marginality and the Politics of Resistance

Sociology

SOC 6008H	Network Analysis I
SOC 6009H	Ethnicity I
SOC 6101H	Sociological Theory II
SOC 6119H	Gender Relations II
SOC 6210H	Political Sociology III

Diaspora and Transnational Studies

Diaspora and Transnational Studies: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Anthropology](#) — MA, MSc, PhD
[Art History](#) — MA, PhD
[Cinema Studies](#) — MA
[Comparative Literature](#) — MA, PhD
[Criminology and Sociolegal Studies](#) — MA, PhD
[Drama, Theatre and Performance Studies](#) — MA, PhD
[English](#) — MA, PhD
[Geography](#) — MA, MSc, PhD
[Germanic Languages and Literatures](#) — MA
[Germanic Literature, Culture and Theory](#) — PhD
[History](#) — 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 multistriated 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 specialization 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 collaborative specialization.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Diaspora and Transnational Studies" on their transcript.

Contact and Address

Web: cdts.utoronto.ca
 Email: cdts@utoronto.ca
 Telephone: (416) 946 8464
 Fax: (416) 978 7045

Diaspora and Transnational Studies Collaborative
 Specialization
 University of Toronto
 Suite 230, 170 St. George Street
 Toronto, Ontario M5R 2M8
 Canada

Diaspora and Transnational Studies: 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 specialization.

Specialization 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 specialization 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, DTS 2001H, or DTS 2002H); course themes to be decided each year by the collaborative specialization committee. The DTS collaborative components may be taken as electives for the purpose of satisfying home unit requirements.
 - The DTS collaborative components may be taken as electives for the purpose of satisfying home unit requirements.
 - If the student undertakes a major paper or thesis in their home unit, this will be on a topic in diaspora and

transnational studies, approved by the collaborative specialization committee.

Diaspora and Transnational Studies: 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 specialization.
- Students who complete the collaborative specialization at the master's level will not be eligible for the program at the doctoral level.

Specialization 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 specialization 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, DTS 2001H, or DTS 2002H); course themes to be decided each year by the collaborative specialization committee. The DTS collaborative components may be taken as electives for the purpose of satisfying home unit requirements.
 - 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 collaborative specialization committee.

Diaspora and Transnational Studies: Courses

DTS 1000H	Comparative Research Methods in Diaspora and Transnationalism
DTS 2000H	Graduate Topics in Diaspora Studies
DTS 2001H	Graduate Topics in Diaspora Studies
DTS 2002H	Graduate Topics in Diaspora Studies

Earth Sciences and Physics

Earth Sciences and Physics: Introduction

Effective September 1, 2020, this collaborative specialization has closed.

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

Earth Sciences — MSc, PhD
Physics — MSc, PhD

Overview

The graduate programs listed above participate in the Collaborative Specialization 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Earth Sciences and Physics" on their transcript.

Contact and Address

Web: www.es.utoronto.ca/programs/graduate
 Email: bailey@geology.utoronto.ca
 Telephone: (416) 978-3231
 Fax: (416) 978-7606

Collaborative Specialization 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

Earth Sciences and Physics: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both a graduate degree program in one of the collaborating graduate units, this being either Earth Sciences or Physics, and to the collaborative specialization. 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 specialization.

- Applicants must submit a supplementary brief application form, available from either the home graduate unit or collaborative specialization office, to the collaborative specialization director.
- Normal deadlines apply for application to the School of Graduate Studies. Students who have already been admitted to one of the two home graduate units may apply to the collaborative specialization until October 1.

Specialization Requirements

- Students must meet all respective degree requirements of the School of Graduate Studies, the home graduate unit, and the collaborative specialization.
- The MSc research, thesis, and thesis defence requirements are the same as those of the home unit.
- 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 graduate unit.
- 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.
- Requirements are normally completed within 12 months of entry to the collaborative specialization.

Earth Sciences and Physics: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both a graduate degree program in one of the collaborating graduate units, this being either Earth Sciences or Physics, and to the collaborative specialization.
- Applicants must submit a supplementary brief application form, available from either the home graduate unit or collaborative specialization office, to the collaborative specialization director.
- Normal deadlines for application to the School of Graduate Studies apply. Students who have already been admitted to one of the two home graduate units may apply to the collaborative specialization until October 1.

Specialization Requirements

- Students must meet all respective degree requirements of the School of Graduate Studies, the home graduate unit, and the collaborative specialization.
- The PhD research, thesis, and thesis defence requirements are the same as those of the home unit.

- The lecture course requirements are the Earth Sciences graduate seminar course in addition to the course requirements of the home unit, and at least 1.0 full-course equivalent (FCE) in the non-home unit.
- The student's research supervisor will normally be a faculty member in the student's home unit, unless an explicit exception is approved by both graduate units.

Editing Ancient and Medieval Texts

Editing Ancient and Medieval Texts: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization in Editing Ancient and 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 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Editing Ancient and Medieval Texts" on their transcript.

Contact and Address

Web: medieval.utoronto.ca/studying/programs/collaborative/collaborative-specialization-in-editing-ancient-and-medieval-texts/
 Email: medieval.studies@utoronto.ca
 Telephone: (416) 978-4884
 Fax: (416) 978-8294

Collaborative Specialization in Editing Ancient and Medieval Texts
 Centre for Medieval Studies
 University of Toronto
 3rd Floor, 125 Queen's Park
 Toronto, Ontario M5S 2C7
 Canada

Editing Ancient and Medieval Texts: Doctoral Level

Admission Requirements

- The Collaborative Specialization in Editing Ancient and Medieval Texts is only available to doctoral students in one of the collaborating graduate units.
- Students who wish to be admitted to the collaborative specialization must have passed the Centre for Medieval Studies' Level One Latin examination.

Specialization Requirements

- Students must complete a total of **1.0 full-course equivalent (FCE)** as follows:
 - The year-long core seminar MST 1111H *Higher Seminar in Editing Ancient and Medieval Texts** (0.5 FCE; Credit/No Credit)
 - 0.5 FCE from a course in the relevant language and/or philology of the student's field, chosen with the approval of the home graduate unit and the collaborative specialization director.
- An approved editorial project, which can be a paper for a course in any of the collaborating graduate units, an independent publishable project, or the student's dissertation.
- The student's course of study and overall progress will be reviewed annually by the collaborative specialization director, though ultimate responsibility for the student's progress will remain with the graduate chair of the home program.

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

Editing Ancient and Medieval Texts: Courses

Courses marked (PR) have prerequisites; further information may be obtained from the [Centre for Medieval Studies' website](#).

English

ENG 1093H	The Medieval Vernacular Book
-----------	------------------------------

Italian Studies

ITA 1165H	Introduction to Italian Philology
-----------	-----------------------------------

Medieval Studies

MST 1000Y	Medieval Latin I
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 1111H ⁺	Higher Seminar in Editing Ancient and Medieval Texts (Credit/No Credit)
MST 1115H	English Palaeography (PR)
MST 1384H	The Exeter Book of Old English Verse (PR)
MST 1392H	Editing and Appreciating Wulfstan's Prose (PR)

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

Education, Francophonies and Diversity

Education, Francophonies and Diversity: Introduction

[This information is available in French.](#)

Lead Faculty of the Collaborative Specialization

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

[Curriculum and Pedagogy](#) — MA, MEd, PhD
[Language and Literacies Education](#) — MA, MEd, PhD
[Social Justice Education](#) — MA, MEd, EdD, PhD

Overview

The Collaborative Specialization in Education, Francophonies and Diversity will critically examine educational issues in the context of Francophone linguistic minorities in Ontario, in Canada, and in the world, with the notions of equity, diversity, and minoritization at the core of this critical examination. The emphasis will be on understanding social practices in education, looking specifically at how difference gets constructed, problematized, and transformed.

Upon successful completion of the requirements of the home graduate unit and the collaborative specialization, students will receive the notation “Completed Collaborative Specialization in Education, Francophonies and Diversity” on their transcript.

Contact and Address

Web: crefo.oise.utoronto.ca
 Email: crefo.oise@utoronto.ca
 Telephone: (416) 978-1975
 Fax: (416) 926-4714

Collaborative Specialization in Education, Francophonies and Diversity
 Centre de recherches en éducation franco-ontarienne (CREFO)
 Ontario Institute for Studies in Education, University of Toronto
 252 Bloor Street West, 6th Floor
 Toronto, Ontario M5S 1V6 Canada

Education, Francophonies and Diversity: Master's Level

Admission Requirements

- Applicants must apply to and be accepted by both their home program and the Collaborative Specialization in Education, Francophonies and Diversity.
- In addition to corresponding to all home program requirements, applicants must submit:
 - a curriculum vitae
 - a personal statement explaining how their program of study and specific research interests relate to Francophone linguistic minorities education.

Specialization Requirements

- Complete the core course CRE 1001H *Séminaire d'études : Éducation, francophonies et diversité* (0.5 full-course equivalent [FCE]).
- Complete two Education, Francophonies and Diversity elective courses (1.0 FCE).
- Attend at least three sessions in the CREFO Conference Series. Students who are enrolled in an MA or MEd program with a Major Research Project (MRP) component must present their research paper at the CREFO Conference Series (SRM 3333H *Master's Seminar Series*).
- Prepare a thesis or major research paper (depending on the requirements of the home graduate unit) which relates to the focus of the collaborative specialization. Students will be supervised by one of the collaborative specialization's core faculty in their home graduate unit.

Education, Francophonies and Diversity: Doctoral Level

Admission Requirements

- Applicants must apply to and be accepted by both their home program and the Collaborative Specialization in Education, Francophonies and Diversity.
- In addition to corresponding to all home program requirements, applicants must submit:
 - a curriculum vitae
 - a personal statement explaining how their program of study and specific research interests relate to Francophone linguistic minorities education.

Specialization Requirements

- Complete the core course CRE 1001H *Séminaire d'études : Éducation, francophonies et diversité* (0.5 full-course equivalent [FCE]).
- Complete two Education, Francophonies and Diversity elective courses (1.0 FCE).
- Attend at least three sessions in the CREFO Conference Series. Students must present their research paper at the CREFO Conference Series (SRM 4444H *Doctoral Seminar Series*).

- Prepare a thesis which relates to the focus of the collaborative specialization. Students will be supervised by one of the collaborative specialization's core faculty in their home graduate unit.

Education, Francophonies and Diversity: Courses

Not all courses are offered every year. Please consult the respective graduate unit's course schedule for details.

Core Course

CRE 1001H	Séminaire d'études : Éducation, francophonies et diversité
-----------	--

Elective Courses

CTL 1000H	Les fondements du curriculum et de la pédagogie
CTL 1011H	L'éducation pour l'anti-oppression en milieu scolaire
CTL 1304H	Études culturelles et éducation
CTL 1306H	La recherche qualitative en éducation : bases théoriques et pratiques
CTL 1307H	Identité collective et éducation minoritaire de langue française
CTL 3007H	Séminaire sur le langage et la communication
CTL 3011H	Bilinguisme et éducation
CTL 3018H	Politique et aménagement linguistique
SJE 1900H	Introduction à la sociologie de l'éducation
SJE 1911H	Sociologie de l'éducation inclusive
SJE 1951H	L'école, la participation parentale et la communauté
JTE 1952H	Langue, culture, et éducation

Educational Policy

Educational Policy: Introduction

Lead Faculty of the Collaborative Specialization

Ontario Institute for Studies in Education (OISE)

Participating Degree Programs

[Adult Education and Community Development](#) — MA, MEd, PhD

[Curriculum and Pedagogy](#) — 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 Specialization 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 specialization'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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Educational Policy" on their transcript.

Contact and Address

Web:

www.oise.utoronto.ca/lhae/Programs/Collaborative_Specializations/Educational_Policy.html

Collaborative Specialization in Educational Policy
Ontario Institute for Studies in Education
University of Toronto
252 Bloor Street West
Toronto, Ontario M5S 1V6
Canada

Educational Policy: Master's Level

Admission Requirements

- Applicants must apply to and be accepted by both their home program and the Collaborative Specialization 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 Specialization 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 specialization 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 specialization.
- Students who develop an interest in admission to the collaborative specialization 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.

Specialization Requirements

- All master's students in the collaborative specialization:
 - Take the core half course EDP 3045H *Educational Policy and Program Evaluation* (0.5 FCE).
 - Attend the Collaborative Specialization 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 specialization 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.
 - Course-only MEd students must take two electives from the list below.
- MA program:
 - The total number of courses required for graduation will equal 6 or 8.

Educational Policy: Doctoral Level

Admission Requirements

- Students interested in participating in the Collaborative Specialization in Educational Policy at the doctoral level

must apply to and be accepted by both their home program and the collaborative specialization.

- 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 Specialization 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 specialization 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 specialization.
- Students who develop an interest in admission to the collaborative specialization 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.

Specialization Requirements

- All doctoral students in the collaborative specialization:
 - Take the core half course (0.5 full-course equivalent [FCE]) EDP 3045H *Educational Policy and Program Evaluation*, if not already taken.
 - Take the core half course (0.5 FCE) EDP 3145H *Advanced Issues in Educational Policy Analysis and Program Evaluation*.
 - Attend the Collaborative Specialization 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 specialization 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.

Educational Policy: Courses

Not all courses are offered each year. Visit the Collaborative Specialization in Educational Policy (CSEP) website for [current course offerings](#).

Master's-Level Core Course

EDP 3045H	Educational Policy and Program Evaluation
-----------	---

Master's-Level Electives

APD 1211H	Psychological Foundations of Early Development and Education
-----------	--

APD 1241H	Outcomes of Early Education and Child Care
CTL 1428H	Immigration and the Development of Canadian Education
CTL 1429H	Ethnicity and the Development of Canadian Education
CTL 7074H	Issues in Educational Law, Policy, and Ethics
LHA 1016H	School Program Development and Implementation
LHA 1018H	Political Skill in the Education Arena
LHA 1020H	Teachers and Educational Change
LHA 1035H	Sociology of Education
LHA 1065H	Educational Equity and Excellence in International Comparison
LHA 1171H	Foundations of Aboriginal Education in Canada
LHA 1806H	Systems of Higher Education
LHA 1837H	Environmental Health, Transformative Higher Education, and Policy Change: Education Toward Social and Ecosystem Healing
LHA 5000H*	Special Topics in Educational Leadership and Policy: Master's Level*
LHA 5004H	Special Topics in Educational Leadership and Policy: Master's Level
LHA 5006H	Special Topics in Educational Leadership and Policy: Master's Level
LHA 5800H*	Special Topics in Higher Education: Master's Level*
LHA 5801H*	Special Topics in Higher Education: Master's Level*
LHA 5807H	Special Topics in Higher Education: Master's Level
SJE 1902H	Introductory Sociological Research Methods in Education
SJE 1903H	Major Concepts and Issues in Social Justice 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
SJE 2910H	Changes in Families and Policy Consequences for Government and Education
SJE 5000H*	Special Topics in Social Justice Research in Education: Master's Level*
SJE 5005H	Special Topics in Social Justice Research in Education: Master's Level

Doctoral-Level Core Courses

EDP 3045H	Educational Policy and Program Evaluation
EDP 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
CTL 3018H	Language Planning and Policy

JOI 3048H	Intermediate Statistics in Educational Research: Multiple Regression Analysis (RM)
JSA 5147H	Language, Nationalism, and Post-nationalism
LHA 3041H	Doctoral Seminar on Policy Issues in Education
LHA 3043H	Survey Research in Educational Leadership and Policy (RM)
LHA 3180H	Global Governance and Educational Change: the Politics of International Cooperation in Education
LHA 6000H*	Special Topics in Educational Leadership and Policy: Doctoral Level*
LHA 6002H	Special Topics in Educational Leadership and Policy: Doctoral Level
LHA 6005H	Special Topics in Educational Leadership and Policy: Doctoral Level
SJE 2941H	Bourdieu: Theory of Practice in Social Sciences
SJE 2942H	Education and Work
SJE 6000H*	Special Topics in Social Justice Research in Education: Doctoral Level*

* **Special topics courses:** Only the [special topics course titles](#) listed on the CSEP website can be counted toward CSEP program requirements in the current year. Please confirm current year courses with the CSEP program administrator.

Engineering Education

Engineering Education: Introduction

Lead Faculty of the Collaborative Specialization

Applied Science and Engineering

Participating Degree Programs

[Chemical Engineering and Applied Chemistry](#) — MSc, PhD

[Civil Engineering](#) — MSc, PhD

[Curriculum and Pedagogy](#) — MA, PhD

[Higher Education](#) — MA, MEd, PhD

[Mechanical and Industrial Engineering](#) — MSc, PhD

Overview

The Collaborative Specialization 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 collaborative specialization 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 graduate unit. 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Engineering Education" on their transcript.

Contact and Address

Web: <http://gradstudies.engineering.utoronto.ca/research-degrees/collaborative-program-engineering-education>

Email: natalieyl.leung@utoronto.ca

Telephone: (416) 978-5932

Fax: (416) 978-8605

Collaborative Specialization in Engineering Education
Faculty of Applied Science and Engineering
55 College Street
Toronto, Ontario M5S 0C9
Canada

Engineering Education: Master's Level

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants to the collaborative specialization must submit the following:
 - curriculum vitae (CV)
 - personal statement explaining how the proposed plan 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 Specialization.

Specialization Requirements

Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative specialization. Collaborative specialization students must:

- Complete a total of 0.5 full-course equivalent (FCE) as follows:
 - the core course TEP 1204H *Instructional Design in Engineering Education*.
- 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 specialization core faculty member.

Engineering Education: Doctoral-Level Program

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants to the collaborative specialization must submit the following:
 - curriculum vitae (CV)
 - personal statement explaining how the plan 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 Specialization.

Specialization Requirements

Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative specialization. Collaborative specialization students must:

- Complete a total of **1.0 full-course equivalent (FCE)** as follows:
 - the core course TEP 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 specialization core faculty member.
- Complete the core course TEP 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 specialization director.

Engineering Education: Courses

Core Courses

APS 1205Y	Engineering Education Research Seminar — Master's Level
APS 1206Y ⁰	Engineering Education Research Seminar — Doctoral Level
TEP 1204H	Instructional Design in Engineering Education

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 1041H	Research Methods in Education
CTL 1042H	Instrument Development in Education
CTL 1047H	Course 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

Faculty of Applied Science and Engineering

APS 520H	Technology, Engineering, and Global Development
APS 530H	Appropriate Technology and Design for Global Development
APS 1001H	Project Management
APS 1003H	Professional Education and Instruction
APS 1012H	Managing Business Innovation and Transformational Change
APS 1013H	Applying Innovation in Engineering and Business Operations
APS 1018H	History and Philosophy of Engineering
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
TEP 1010H	Cognitive and Psychological Foundations of Effective Leadership
TEP 1011H	Authentic Leadership: Engineering a Vibrant Future
TEP 1501H	Leadership and Leading in Groups and Organizations

Faculty of Information

KMD 2001H	Human-Centred Design
-----------	----------------------

Environment and Health

Environment and Health: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Adult Education and Community Development](#) — MA, MEd, PhD
[Chemical Engineering and Applied Chemistry](#) — MAsC, MEng, PhD
[Community Health](#) — MScCH
[Environmental Science](#) — MEnvSc, PhD
[Forest Conservation](#) — MFC
[Forestry](#) — MScF, PhD
[Geography](#) — MA, MSc, PhD
[Medical Science](#) — MSc, PhD
[Planning](#) — MScPl, PhD
[Public Health Sciences](#) — MPH, PhD
[Women and Gender Studies](#) — MA, PhD

Overview

The graduate degree programs listed above participate in the Collaborative Specialization in Environment and Health (CSEH), which is offered through the School of the Environment. Graduate students admitted to a participating graduate degree program in a degree-granting unit, also called the home department or home unit, can apply to the CSEH and pursue coursework and research in areas related to environment and health. The School of the Environment currently has graduate students from across the disciplinary spectrum.

The study of environment and health recognizes that human health is fundamentally dependent on a healthy environment. With a focus on understanding the human health implications of chemical, biological, and physical hazards in our environment, it encompasses topics such as the health impacts of air and water quality, climate change, contaminated lands and urban design, and the need for interdisciplinary approaches to address them. The CSEH exposes students in the health sciences to broader environmental perspectives on related health issues, while students in environmental studies and sciences can have the opportunity to gain insight about the health implications of environmental quality. This specialization may also be of interest to students who are concerned with ethical, pedagogical, and policy approaches to understanding and addressing environment and health issues.

Upon successful completion of the degree requirements of the participating home department and the CSEH, students will receive the notation "Completed Collaborative Specialization in Environment and Health" on their transcript.

Contact and Address

Web: environment.utoronto.ca/graduate/
 Email: grad.director.env@utoronto.ca or grad.office.env@utoronto.ca
 Telephone: (416) 978-3475
 Fax: (416) 978-3884

Collaborative Specialization in Environment and Health
 School of the Environment, Earth Sciences Centre
 University of Toronto
 Room 1016V, 33 Willcocks Street
 Toronto, Ontario M5S 3E8
 Canada

Environment and Health: Master's Level

Admission Requirements

- Students who wish to enrol in the CSEH offered by the School of the Environment must first apply to and be accepted into a master's program in a degree-granting unit, also called a home department or home unit. Information about applying to a home unit can be found on the [School of Graduate Studies' website](#) as well as on the respective websites of participating degree-granting units.
- Prospective students who are planning to enrol in the CSEH are strongly encouraged to submit copies of the documents outlined on the [School of the Environment's website](#) by the application deadline established by the degree program admission committee in the home department. Applicants should confirm the application deadline with the home department they are interested in applying to, as this can vary between units. The School of the Environment also allows potential students to enrol in the CSEH beyond the deadline set by their home department, provided that students will be able to complete the specialization requirements by the time they are ready to graduate from their degree program.

Specialization Requirements

- The requirements listed below must be completed in combination with that expected for the master's degree program requirements of the home department. These are normally counted as electives toward the degree program requirements of the student's home unit. Typically, students complete up to 1.0 full-course equivalent (FCE) and conduct research on an environment and health topic. Please note that requirements in some participating programs vary slightly. Therefore, students are encouraged to check the calendar entries of their respective home department programs. The CSEH requirements for each participating degree program are listed on the School of the Environment's website under the [Environment and Health Collaborative Specialization](#).

Master's Degree Coursework Option

- Complete the mandatory core course ENV 4001H (0.5 FCE).
- Complete one elective course (0.5 FCE) from the School's list of approved electives below.

- For coursework degree programs that require a research project in their home department, the topic should be within the field of environment and health, as approved by the home department and the School of the Environment. A copy of the final research project must be submitted to the School of the Environment prior to graduation.

Note: For a complete and most up-to-date list of the CSEH requirements by each participating degree program for master's students in the coursework option, please visit the [School of the Environment's website](#) and click on the home graduate unit or degree program.

Master's Degree Thesis Option

- Complete the mandatory core course ENV 4001H (0.5 FCE).
- Complete one elective course (0.5 FCE) from the School's list of approved electives below.
- For degree programs that require a thesis in their home graduate unit, the topic should be within the field of environment and health, as approved by the home unit and the School of the Environment. A copy of the final thesis must be submitted to the School of the Environment prior to graduation.

Note: For a complete and most up-to-date list of the CSEH requirements by each participating degree program for master's students in the coursework option, please visit the [School of the Environment's website](#) and click on the home graduate unit or degree program.

Environment and Health: Doctoral Level

Admission Requirements

- Students who wish to enrol in the CSEH offered by the School of the Environment must first apply to and be accepted into a doctoral program in a degree-granting unit, also called a home department or home unit. Information about applying to a home unit can be found on the [School of Graduate Studies' website](#) as well as on the respective websites of participating degree-granting units.
- 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 degree program admission committee in the home department. Applicants should confirm the application deadlines of their intended home units, as these can vary between units. The School of the Environment also allows potential students to enrol in the CSEH beyond the deadline set by their home unit, provided that students will be able to complete the requirements of the specialization by the time they are ready to graduate from their degree program.

Specialization Requirements

- The requirements listed below must be completed in combination with the PhD degree program requirements of the student's home unit. These are normally counted as electives toward the degree program requirements of the student's home unit. Typically, students complete up to 1.0 full-course equivalent (FCE) and conduct research on an

environment and health topic. Please note that requirements in some participating programs vary slightly. Therefore, students are encouraged to check the calendar entries of their respective home department programs. Specific CSEH requirements for each participating degree program are listed on the School of the Environment's website under the [Environment and Health Collaborative Specialization](#).

- Complete the mandatory core course ENV 4001H (0.5 FCE), unless already completed at the master's level.
- Complete one elective course (0.5 FCE) from the School's list of approved courses.
- Present a seminar either in the Environment and Health Seminar Series or at the School of the Environment's Research Day. Give an oral presentation of their doctoral research as part of the School's Environment and Health Seminar Series or Research Day, which is held once per year. For the latter, the oral presentation may or may not be done in conjunction with a summary poster, depending on the decided format of the School's Research Day in any given year.
- Complete a thesis on a theme in environment and health. It is recommended that the thesis committee membership will include a supervisor (from the student's home unit who is a member of the core faculty of the Collaborative Specialization and a member of the graduate faculty in the School of the Environment) and at least one other member from a collaborating unit. If the student's primary thesis supervisor does not hold a graduate faculty membership (GFM) at the School of the Environment, the School's Director will initiate the process of assigning a GFM to the primary supervisor. A copy of the final thesis must be submitted to the School of the Environment prior to graduation.
- Additional courses may be required by the home unit 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.

Note: For a complete and most up-to-date list of CSEH requirements by each participating degree program for doctoral students, please visit the [School of the Environment's website](#) and click on the home graduate unit or degree program.

Environment and Health: Courses

The School of the Environment offers individual credit courses that are open to graduate students from all units of the University, subject to enrolment limits. Except for the core course, ENV 4001H, not all courses are offered every year. Graduate students enrolled in the CSEH are also allowed to take electives listed for the School's Collaborative Specialization in Environmental Studies (CSES) to fulfil the specialization requirements. For a current graduate course listing, please refer to the [School of the Environment's website](#).

Core Course

ENV 4001H	Graduate Seminars in Environment and Health
-----------	---

Elective Courses

ENV 1703H	Water Resources Management and Policy
ENV 1704H	Environmental Risk Analysis and Management
ENV 3000H,Y	Topics in Environment and Health

Elective Joint Courses with the School of the Environment

JGE 1425H	Livelihoods, Poverty, and Environment in the Developing Countries
JNC 2503H	Environmental Pathways
JNP 1014Y	Interdisciplinary Toxicology
JNP 1016H	Graduate Seminar in Toxicology

Other Elective Courses

Adult Education and Community Development (Department of Leadership, Higher and Adult Education)

LHA 1197H	The Pedagogy of Food
-----------	----------------------

Chemical Engineering and Applied Chemistry

CHE 1435H	Fundamentals of Aerosol Physics and Chemistry
CHE 2504H	Environmental Pollution Prevention
JNC 2503H	Environmental Pathways

Chemistry

CHM 1401H	Transport and Fate of Chemical Species in the Environment
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

Civil and Mineral Engineering

CIV 1399H	Special Studies in Civil Engineering (this course will be allowed as an elective provided it has environment and health content)
-----------	--

Earth Sciences

ESS 1463H	Contaminants in the Environment
-----------	---------------------------------

Forestry

FOR 1575H	Urban Forest Conservation
-----------	---------------------------

Geography and Planning

JGE 1425H	Livelihoods, Poverty, and Environment in the Developing Countries
JPG 1402H	Environment and Development
JPG 1403H	Political Ecology of African Environments

Pharmacology and Toxicology

JNP 1014Y	Interdisciplinary Toxicology
JNP 1016H	Graduate Seminar in Toxicology

Public Health Sciences

CHL 5126H	Building Community Resilience (online course)
CHL 5413H	Public Health Sanitation
CHL 5416H	Environmental Epidemiology
CHL 5809H	Ecological Public Health
CHL 5903H	Environmental Health
CHL 5910H	Occupational and Environmental Hygiene I
CHL 5911H	Occupational and Environmental Hygiene II
CHL 5921H	Protecting the Public from Air Pollution
CHL 7001H	Directed Reading
CHL 8001H	Selected Topics in Public Health Issues (this course will be allowed as an elective provided it has environmental studies content)

Social Justice Education

SJE 1909H	Environmental Sustainability and Social Justice 1
SJE 1919H	Environmental Sustainability and Social Justice 2
SJE 2999H	Special Topics in Sociological Research in Education

Environmental Studies

Environmental Studies: Introduction

Lead Faculty of the Collaborative Specialization

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
[Civil Engineering](#) — MSc, MEng, MEngCEM, 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, PhD
[Management](#) — MBA, PhD
[Music](#) — MA, 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
[Sustainability Management](#) — MScSM
[Women and Gender Studies](#) — MA, PhD

Overview

The graduate degree programs listed above participate in the Collaborative Specialization in Environmental Studies (CSES), which is offered through the School of the Environment. Students admitted to a graduate degree program in a participating degree-granting unit, also called the home department or home unit, can apply to the CSES and pursue coursework and research on topics related to the environment. The School of the Environment currently has graduate students from across the disciplinary spectrum.

The CSES provides interested students an opportunity to examine environmental-related issues from different disciplinary perspectives and gain insights about the importance of understanding and applying interdisciplinary approaches and methodological concepts and tools in environmental decision making. The purpose is to complement the discipline-based learning and research focus of their home units by providing students an interdisciplinary forum to examine, discuss, and address environmental issues. With participating students from as many as 20 different disciplines, the core course, ENV 1001H *Environmental Decision Making*, gives students a unique opportunity to engage with faculty and

peers coming from a range of academic backgrounds and perspectives.

Upon successful completion of the degree requirements of the participating home graduate unit and the CSES, students will receive the notation "Completed Collaborative Specialization in Environmental Studies" on their transcript.

Contact and Address

Web: environment.utoronto.ca/graduate/
 Email: grad.director.env@utoronto.ca or grad.office.env@utoronto.ca
 Telephone: (416) 978-3475
 Fax: (416) 978-3884

Collaborative Specialization in Environmental Studies
 School of the Environment, Earth Sciences Centre
 University of Toronto
 Room 1016V, 33 Willcocks Street
 Toronto, Ontario M5S 3E8
 Canada

Environmental Studies: Master's Level

Admission Requirements

- Students who wish to enrol in the Collaborative Specialization in Environmental Studies (CSES) offered by the School of the Environment must first apply to and be accepted into a master's program in a degree-granting unit, also called a home department or home unit. Information about applying to a master's program can be found on the [School of Graduate Studies' website](#) as well as on the respective websites of participating degree-granting units.
- Prospective students who are planning to enrol in the CSES 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 degree program admission committee in the home department. Applicants should confirm the application deadline with the home department they are interested in applying to, as this can vary between units. The School of the Environment also allows potential students to enrol in the CSES beyond the deadline set by their home department, provided that students will be able to complete the specialization requirements by the time they are ready to graduate from their degree program.

Specialization Requirements

- The requirements listed below must be completed in combination with that expected for the master's degree program of the home department. These are normally counted as electives toward the degree program requirements of the student's home graduate unit. 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 may vary. Therefore, students are encouraged to check the calendar entries for their respective home department degree 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

CSES, unless they have an internship component built into their degree program. The CSES requirements for each participating degree program are listed on the School of the Environment's website under the [Environmental Studies Collaborative Specialization](#).

to complete the specialization requirements by the time they are ready to graduate from their degree program.

Specialization Requirements

Master's Degrees Coursework Option

- Complete the mandatory core course ENV 1001H (0.5 FCE).
- Complete one elective course (0.5 FCE) from the School's list of approved courses.
- Complete an environment-related internship of approximately three months full-time employment (ENV 4444Y+; 1.0 FCE), unless students have an internship requirement included in their degree program.
- Produce a brief research paper on an environment-related topic, which may be related to the internship experience (ENV 5555Y+; 1.0 FCE), unless students have a research paper requirement included in their degree program.

Note: For a complete and most up-to-date list of CSES requirements by each participating degree program for master's students in the coursework option, please visit the [School of the Environment's website](#) and click on the home graduate unit or degree program.

Master's Degrees Thesis Option

- Complete the mandatory core course ENV 1001H (0.5 FCE).
- Complete one elective course (0.5 FCE) from the School's list of approved courses.
- Write a thesis in the home graduate unit on an environment-related topic.

Note: For a complete and most up-to-date list of CSES requirements by each participating degree program for master's students in the thesis option, please visit the [School of the Environment website](#) and click on the home graduate unit or degree program.

Environmental Studies: Doctoral Level

Admission Requirements

- Students who wish to enrol in the CSES offered by the School of the Environment must first apply to and be accepted into a doctoral program in a degree-granting unit, also called a home department or home unit. Information about applying to a home graduate unit can be found on the [School of Graduate Studies' website](#) as well as on the respective websites of participating degree-granting units.
- 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 degree program admission committee in the home department. Applicants should confirm the application deadline with the home department they are interested in applying to, as this can vary between units. The School of the Environment also allows potential students to enrol in the CSES beyond the deadline set by their home department, provided that students will be able

- The requirements listed below must be completed in combination with the PhD degree program requirements of the student's home unit. These are normally counted as electives toward the degree program requirements of the student's home unit. 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, students are encouraged to check the calendar entries for their respective home graduate unit programs. The CSES requirements for each participating degree program are listed on the School of the Environment's website under the [Environmental Studies Collaborative Specialization](#).
- Complete the mandatory core course ENV 1001H (0.5 FCE), unless already completed at the master's level.
- Complete one elective course (0.5 FCE) from the School's list of approved courses.
- Give an oral presentation of their doctoral research as part of the School's Environment and Health Seminar Series or Research Day, which is held once per year. For the latter, the oral presentation may or may not be done in conjunction with a summary poster, depending on the decided format of the School's Research Day in any given year.
- Complete a thesis on an environmental topic in the home department. It is recommended that the thesis committee membership will include a supervisor (from the student's home unit who is a member of the core faculty of the Collaborative Specialization and a member of the graduate faculty in the School of the Environment) and at least one other member from a collaborating unit. If the student's primary thesis supervisor does not hold a graduate faculty membership (GFM) at the School of the Environment, the School's Director will initiate the process of assigning a GFM to the primary supervisor. A copy of the final thesis must be submitted to the School of the Environment prior to graduation.
- Additional courses may be required by the home unit and/or by the supervisor or supervisory committee, depending on academic and/or career goals of the student, as well as graduate unit regulations.
- A supervisor or supervisory committee may be appointed for each student by the home department and the School of the Environment.

Note: For a complete and most up-to-date list of CSES by each participating degree program for doctoral students, please visit the [School of the Environment's website](#) and click on the home graduate unit or degree program.

Environmental Studies: Courses

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. Except for the core course, ENV 1001H, not all courses are offered every year. Graduate students enrolled in the CSES are also allowed to take electives listed for the School's Collaborative Specialization in Environment and Health (CSEH) to fulfil the specialization requirements. For a current graduate course listing, please refer to the [School of the Environment's website](#).

Core Course

ENV 1001H	Environmental Decision Making
-----------	-------------------------------

Elective Courses

ENV 1002H	Environmental Policy
ENV 1007H	The Warming Papers: The Scientific Foundation of Climate Change
ENV 1008H	Worldviews and Ecology
ENV 1103H	U of T Campus as a Living Lab of Sustainability
ENV 1444H	Capitalist Nature
ENV 1701H	Environmental Law
ENV 1703H	Water Resource Management and Policy
ENV 1704H	Environmental Risk Analysis and Management
ENV 1707H	Environmental Finance and Sustainable Investing
ENV 2000H ,Y	Topics in Environment
ENV 2002H	Special Topics in Environment
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.*

Elective Joint Courses with the School of the Environment

JGE 1413H	Workshop in Environmental Impact Assessment
JGE 1420H	Urban Waste Management: An International Perspective
JGE 1425H	Livelihoods, Poverty, and Environment in the Developing Countries
JSE 1708H	Sustainability and the Western Mind

Other Elective Courses

Adult Education and Community Development (Department of Leadership, Higher and Adult Education)

LHA 1104H	Community Education and Organizing
LHA 1160H	Introduction to Transformative Learning Studies
LHA 1193H	Adult Education for Sustainability
LHA 5100H	Special Topics in Adult Education and Community Development: Master's Level
LHA 6100H	Special Topics in Adult Education and Community Development: Doctoral Level

Anthropology

ANT 6018H	Approaches to Nature and Culture
-----------	----------------------------------

Chemical Engineering and Applied Chemistry

CHE 1435H	Fundamentals of Aerosol Physics and Chemistry
JNC 2503H	Environmental Pathways

Chemistry

CHM 1401H	Transport and Fate of Chemical Species in the Environment
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

Computer Science

CSC 2720H	Systems Thinking for Global Problems
-----------	--------------------------------------

English

ENG 6181H	Permaculture and Literature
-----------	-----------------------------

Forestry

FOR 1270H	Forest Biomaterial Sciences: Fundamentals, Applications, and the Next Frontier
FOR 1288H	Design and Manufacturing of Biomaterials
FOR 1294H	Bioenergy and Biorefinery Technology
FOR 1416H	Forest Fire Danger Rating
FOR 1555H	Wildlife Ecology and Conservation
FOR 1575H	Urban Forest Conservation
JFG 1610H	Sustainable Forest Management and Certification

Geography and Planning

GGR 1216H	Advanced Biogeochemical Processes
GGR 1404H	Issues in Global Warming
GGR 1406H	Energy Supply and Use
GGR 1407H	Efficient Use of Energy
GGR 1408H	Carbon-Free Energy
GGR 1411H	Nature and Justice in the Anthropocene
JGE 1413H	Workshop in Environmental Impact Assessment
JGE 1425H	Livelihoods, Poverty, and Environment in the Developing Countries
JPG 1402H	Environment and Development

JPG 1403H	Political Ecology of African Environments
JPG 1518H	Sustainability and Urban Communities
JPG 1814H	Cities and Immigrants
PLA 1601H	Climate Change and Resilience: Planning and Policy

Global Affairs

JSE 1708H	Sustainability and the Western Mind
-----------	-------------------------------------

History and Philosophy of Science and Technology

HPS 4106H	Technology, Environment, and History
-----------	--------------------------------------

Management

RSM 2615H	Special Topics in Organizational Behaviour and Human Resource Management
-----------	--

Mechanical and Industrial Engineering

MIE 1120H	Current Energy Infrastructure and Resources
-----------	---

Physics

PHY 1498H	Introduction to Atmospheric Physics
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

Political Science

POL 2213H	Global Environmental Politics
-----------	-------------------------------

Social Justice Education

SJE 1909H	Environmental Sustainability and Social Justice 1
SJE 1919H	Advanced Topics in Environmental Justice Education
SJE 2999H	Special Topics in Sociological Research in Education (this course will be allowed as an elective provided it has environmental studies content)

Ethnic and Pluralism Studies

Ethnic and Pluralism Studies: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Ethnic and Pluralism Studies" on their transcript.

Contact and Address

Web: <https://munkschool.utoronto.ca/ethnicstudies>
 Email: ethnic.studies@utoronto.ca
 Telephone: (416) 946-0118

Collaborative Specialization in Ethnic and Pluralism Studies
 Munk School of Global Affairs and Public Policy
 University of Toronto
 1 Devonshire Place, room 064S
 Toronto, Ontario M5S 3K7
 Canada

Ethnic and Pluralism Studies: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization 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.

Specialization Requirements

- Students must follow a plan of studies acceptable to both the participating graduate unit and the Ethnic and Pluralism Studies specialization.
- Collaborative specialization requirements may be met concurrent with, or in addition to, graduate unit requirements. Students should consult specific graduate unit 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 graduate unit 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.

Ethnic and Pluralism Studies: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization 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.

Specialization Requirements

- Students must follow a plan of studies acceptable to both the participating graduate unit and the Ethnic and Pluralism Studies specialization.
- Collaborative specialization requirements may be met concurrent with, or in addition to, graduate unit requirements. Students should consult specific graduate unit 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 graduate unit 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.

Ethnic and Pluralism Studies: Courses

- Courses eligible for credit towards meeting specialization requirements in Ethnic and Pluralism Studies are listed below.
- Students should check with the professor responsible for each course since a prerequisite may be required.
- Not all courses are offered each year. Please consult the collaborative specialization office or the appropriate graduate unit for course availability.
- Students wishing to use courses other than those listed below for credit towards meeting specialization requirements must submit a formal request in writing.

Coordinating Seminar

JTH 3000H	Ethnic Relations Theory, Research, and Policy
-----------	---

Anthropology

ANT 5150H	Nation, State, and Language in Francophone Canada
ANT 6033H	Advanced Research Seminar III

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 3023H	Introduction to Aboriginal Land-Centered Education: Historical and Contemporary Perspectives
CTL 3026H	Pragmatics in Language Education
CTL 3038H	Aboriginal Civilization: Language, Culture, and Identity
CTL 3799H	Special Topics in Language and Literacies Education: Master's Level
CTL 3803H	Ethnographic Research in the Language Disciplines
JTE 1952H	Language, Culture, and Education

Economics

ECO 2800H	Labour Economics I (prerequisite: an undergraduate course in statistics and a graduate course in applied statistics)
-----------	--

Geography

PLA 1503H	Planning and Social Policy
JPG 1506H	Urban and Regional Social Policy: An International Perspective
JPG 1805H	Transnationalism, Diaspora, and Gender

History

HIS 1117H	Canada: Colonialism/Postcolonialism
HIS 1287H	Polish Jews Since the Partitions of Poland (joint graduate/undergraduate)
HIS 1440H	Irish Nationalism in Canada, 1858–1870

Industrial Relations and Human Resources

IRE 1725H	Cross Cultural Differences in Organizational Contexts
-----------	---

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 graduate unit. 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 5022H	Introduction to Islamic Law
LAW 7024H	Citizenship: Inside and Out
LAW 7052Y	Aboriginal Peoples and Canadian Law
LAW 7053H	Intensive Course: Who Belongs? Dilemmas of Citizenship and Immigration
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 2026H,Y	Topics in Political Thought I
POL 2102H	Topics in Canadian Politics I
POL 2103H	Topics in Canadian Politics II
POL 2167H	The Politics of Immigration and Multiculturalism in Canada
POL 2207H	Topics in International Politics III
JRA 2391H	Topics in Comparative Politics
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 specialization)
PPG 2001H	Legal Analysis of Public Policy

Religion

RLG 2027H	Law and Religion: Critical Conversations
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 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
-----------	-------------------------------------

Food Studies

Food Studies: Introduction

Lead Faculty of the Collaborative Specialization

University of Toronto Scarborough

Participating Degree Programs

[Anthropology](#) — MA, PhD
[East Asian Studies](#) — MA, PhD
[Environmental Science](#) — PhD
[Geography](#) — MA, MSc, PhD
[History](#) — MA, PhD
[Information](#) — MI
[Museum Studies](#) — MMSt
[Nutritional Sciences](#) — MSc, PhD
[Public Health Sciences](#) — PhD
[Sociology](#) — MA, PhD

Supporting Units

Culinaria Research Centre

Overview

Food Studies is an interdisciplinary field dedicated to understanding where our food comes from and how it shapes our bodies and identities. The production and consumption of food has gone through tremendous changes in the past few hundred years. Before industrialization, most food was grown in the place where it was eaten. With the rise of global commodity agriculture, it is often hard to find out exactly what our food is and where it comes from. Then, famine was a constant spectre, whereas today, over-eating has become a significant health problem.

Particular attention will be given to the material nature of food, the way it tastes and smells, and the changes it undergoes through natural decomposition and through the human intervention of preservation and cooking. Students will learn the importance of food in religion, society, the family, gender roles, the environment, agriculture, urbanization, immigration, colonialism, and race and ethnicity. Food Studies will leverage the University's urban location and its proximity to Canada's agricultural heartland to broaden students' experience. The study of food provides both theoretical understanding and practical knowledge for professional careers in health care, business, government service, non-governmental organizations, and educational and community programs. This specialization will draw on a variety of disciplinary approaches emphasizing different knowledge and skills.

The collaborative specialization is open to master's and PhD students in the participating graduate programs listed above. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed

Collaborative Specialization in Food Studies" on their transcript.

Contact and Address

Web: www.utsc.utoronto.ca/culinaria

Email: culinaria@utsc.utoronto.ca

Telephone: (416) 208-8175

Collaborative Specialization in Food Studies
 University of Toronto
 1265 Military Trail
 Toronto, Ontario M1C 1A4
 Canada

Food Studies: Master's Level

Admission Requirements

- Applicants must meet the admission requirements of both the home graduate unit and the collaborative specialization.
- Applicants must apply to and be admitted to both the collaborative specialization and a participating master's degree program.
- A curriculum vitae (CV).
- Applicants must demonstrate superior writing and research skills, as well as an interest in the socio-cultural aspects of food. Applicants will submit to the collaborative specialization committee a research paper (maximum 30 pages) that has been submitted to the home graduate unit, or one that is focused on food studies.
- 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 specialization.
- Some undergraduate experience in food-related coursework is desired.

Specialization Requirements

MA in Anthropology;
MA in East Asian Studies (Thesis Option);
MA and MSc in Geography;
MA in History;
MSc in Nutritional Sciences;
MA in Sociology (Research Paper Option);
MI Concentration Plus Thesis Option;
MI General Pathway Plus Thesis Option

- Students must meet all the degree requirements of the School of Graduate Studies, the participating home program, and the collaborative specialization.
- Successful completion of the seminar FST 1000H *Comparative Research Methods in Food Studies* (0.5 full-course equivalent [FCE]).
- Regular and active participation in SRM 3333H *Culinaria Seminar Series*.
- The major research paper or thesis in the participating degree program will be on a topic in food studies, approved by the collaborative specialization committee.

- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MA in East Asian Studies (Coursework-Only Option); MA in Sociology (Coursework-Only Option)

- Students must meet all the degree requirements of the School of Graduate Studies, the participating home program, and the collaborative specialization.
- Successful completion of the seminar FST 1000H *Comparative Research Methods in Food Studies* (0.5 full-course equivalent [FCE]).
- Successful completion of 1.0 elective FCE related to food studies.
- Regular and active participation in SRM 3333H *Culinaria Seminar Series*.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MI Coursework-Only Option

- Students must meet all the degree requirements of the School of Graduate Studies, the participating home program, and the collaborative specialization.
- Successful completion of the seminar FST 1000H *Comparative Research Methods in Food Studies* (0.5 full-course equivalent [FCE]).
- Successful completion of the practicum INF 2173H (0.5 FCE; Credit/ No Credit) in an area related to food studies.
- Successful completion of 1.5 elective FCEs related to food studies.
- Regular and active participation in SRM 3333H *Culinaria Seminar Series*.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MMSt Coursework-Only Option

- Students must meet all the degree requirements of the School of Graduate Studies, the participating home program, and the collaborative specialization.
- Successful completion of the seminar FST 1000H *Comparative Research Methods in Food Studies* (0.5 full-course equivalent [FCE]).
- Successful completion of 2.0 FCEs from a combination of:
 - an internship MSL 3000Y (1.0 FCE) related to food studies;
 - a project MSL 4000Y (1.0 FCE) related to food studies;
 - up to 2.0 elective FCEs related to food studies.
- Regular and active participation in SRM 3333H *Culinaria Seminar Series*.

- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Food Studies: Doctoral Level

Admission Requirements

- Applicants must meet the admission requirements of both the home graduate unit and the collaborative specialization.
- Applicants must apply to and be admitted to both the collaborative specialization and a participating doctoral degree program.
- Students who complete the collaborative specialization at the master's level will be eligible for the program at the doctoral level, but will be expected to complete an additional topics course (see below).
- A curriculum vitae (CV).
- Applicants must demonstrate superior writing and research skills, as well as an interest in the socio-cultural aspects of food. Applicants will submit to the collaborative specialization committee a master's-level research project paper or thesis. Experience in a food-related field (either practical, scholarly, or policy/political/social service) is beneficial.

Specialization Requirements

- Students must meet the degree requirements of the School of Graduate Studies, the participating home program, and the collaborative specialization.
- Successful completion of the seminar FST 1000H *Comparative Research Methods in Food Studies* (0.5 full-course equivalent [FCE]), if not already taken at the master's level. Students who have completed the Food Studies collaborative specialization at the master's level are exempted from this requirement.
- Successful completion of the topics course FST 2000H *Food, Culture, and Society* (0.5 FCE). The course theme will be decided each year by the collaborative specialization committee.
- Regular and active participation in SRD 4444H *Culinaria Seminar Series*.
- The student's dissertation in their home graduate unit must be on a topic in food studies, approved by the specialization committee.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Food Studies: Courses

Required

FST 1000H	Comparative Research Methods in Food Studies
FST 2000H	Food, Culture, and Society

Electives

These courses may have prerequisites and enrolment limits. These courses may not be offered every year. Students may take courses not listed below with approval of the collaborative specialization director.

ANT 4039H	The Origins and Nature of Early Resource Producing Societies
CHL 5652H	Foundations of Practice III
HIS 1301H	History of Food and Drink
JPG 1429H	The Political Ecology of Food and Agriculture
LHA 1197H	The Pedagogy of Food
MST 1370H	From Farm to Market: Social and Economic Transformations in Medieval Europe
NFS 1201H	Public Health Nutrition
NFS 1212H	Regulation of Food Composition, Health Claims, and Safety
NFS 1216H	Selected Topics in Nutrition
NFS 1218H	Recent Advances in Nutritional Sciences
SOC 6519H	Sociology of Food

Genome Biology and Bioinformatics

Genome Biology and Bioinformatics: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

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 availability of complete genome sequences of many organisms has led to the appreciation that our knowledge of the function of the genome 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 and function. The Collaborative Specialization in Genome Biology and Bioinformatics addresses this need for cooperation with a coherent course of study that educates, trains, and provides community for doctoral graduate students across these diverse disciplines.

The graduate programs listed above participate in the Collaborative Specialization in Genome Biology and Bioinformatics. Upon successful completion of the PhD requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Genome Biology and Bioinformatics" on their transcript.

Contact and Address

Web: gbb.csb.utoronto.ca
 Email: m.casco@utoronto.ca
 Telephone: (416) 978-5636

Collaborative Specialization in Genome Biology and Bioinformatics
 Department of Cell and Systems Biology
 Faculty of Arts and Science, University of Toronto
 25 Harbord Street, RW 424G
 Toronto, Ontario, M5S 3G5
 Canada

Genome Biology and Bioinformatics: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. Since this is a doctoral-level course of study, students must be registered in the doctoral program of one of the host graduate units and must be undertaking research with a significant genome biology and/or bioinformatics component under the supervision of a member of the collaborative specialization.

Program Requirements

- Complete a PhD thesis in the area of the collaborative specialization, and any core courses as required by the student's host graduate unit.
- Complete the seminar series in Genome Biology and Bioinformatics (GBB 1001H, 0.5 FCE). Students will be required to present and discuss their research projects in this seminar series.
- 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.

Genome Biology and Bioinformatics: Courses

Students are required to enrol in the seminar course GBB 1001H.

Required Seminar Series

GBB 1001H Seminar in Genome Biology and Bioinformatics

Elective

CSB 1482H Readings in Genome Biology and Bioinformatics

Global Health (U of T Global Scholar)

Global Health (U of T Global Scholar): Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Anthropology](#) — MA, MSc, PhD
[Chemical Engineering and Applied Chemistry](#) — MSc, MEng, PhD
[Community Health](#) — MScCH
[Dentistry](#) — MSc (thesis only), PhD
[Geography](#) — MA, MSc, PhD
[Health Policy, Management and Evaluation](#) — MSc (thesis only), PhD
[Law](#) — LLM, SJD
[Management](#) — PhD
[Medical Science](#) — PhD
[Nursing Science](#) — PhD
[Pharmaceutical Sciences](#) — MSc (thesis only), PhD
[Planning](#) — MScPI, PhD
[Political Science](#) — PhD
[Public Health Sciences](#) — MPH, MSc (thesis only), PhD
[Rehabilitation Science](#) — MSc, PhD

Overview

The graduate programs listed above participate in the Collaborative Specialization in Global Health (U of T Global Scholar). This specialization offers students collaborative and interdisciplinary graduate education and research opportunities in global health. Global health is viewed as an integrative construct that focuses on the inter-relationships between local, regional, national, and international factors influencing health and health equity and effective programs and policies that will address these factors.

The Collaborative Specialization in Global Health (U of T Global Scholar) enhances the student experience by exposing students to a broad base of faculty expertise and an opportunity to share research ideas and results from multiple disciplinary perspectives. This specialization 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.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Global Health (U of T Global Scholar)" on their transcript.

Students who complete the requirements of the Collaborative Specialization in Global Health are considered University of Toronto Global Scholars.

Contact and Address

Web: www.dlsph.utoronto.ca/institutes/centre-for-global-health
 Email: ghoffice.dlpsh@utoronto.ca
 Telephone: (416) 946-7909

Collaborative Specialization in Global Health (U of T Global Scholar)
 Centre for Global Public Health
 Dalla Lana School of Public Health
 University of Toronto
 155 College Street, Room 400
 Toronto, Ontario M5T 3M7
 Canada

Global Health (U of T Global Scholar): Master's 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 specialization.
- Applicants must be admitted to a master's program in one of the collaborating home graduate units before they may apply to the Collaborative Specialization in Global Health (U of T Global Scholar).

Specialization Requirements

- Meet all the degree requirements of the School of Graduate Studies, the home graduate unit, and the Collaborative Specialization in Global Health (U of T Global Scholar).
- Students must successfully complete the global health core course, CHL 5700H *Global Public Health* (0.5 full-course equivalent [FCE]).
- Depending on the requirements of their core master's programs, collaborative specialization students must complete either a practicum placement, a major research paper, or a master's thesis related to global health.
- Master's students will be encouraged to participate in a series of shared co-curricular global health activities organized by the Dalla Lana School of Public Health and other participating graduate units.
- Students in coursework-only programs in Engineering (MEng) and Public Health (MScCH) must complete an additional 1.0 FCE in approved global health electives. Students in the coursework-only Law program (LLM) must complete an additional 1.5 FCE in approved global health electives.

Core Course

CHL 5700H Global Public Health

Elective Courses

Students in coursework-only master's programs must take additional global health electives as outlined above. The elective must be approved by the program director of the collaborative specialization.

Global Health (U of T Global Scholar): 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 specialization.
- Applicants must be admitted to a doctoral program in one of the collaborating home graduate units before they may apply to the Collaborative Specialization in Global Health (U of T Global Scholar).
- Applicants should have professional, academic, or volunteer experience in global health.

Specialization Requirements

- Meet all the degree requirements of the School of Graduate Studies, the home graduate unit, and the Collaborative Specialization in Global Health (U of T Global Scholar).
- 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, NUR 1083H, or
 - 1.0 FCE: JCR 1000Y.
 - One elective (0.5 FCE) from outside the home graduate unit, selected in consultation with the collaborative specialization director.
 - A thesis on an issue related to global health, to be approved by both the home unit and the Collaborative Specialization in Global Health Director (U of T Global Scholar).

Core Courses

CHL 5701H	Doctoral Seminar, Collaborative Specialization in Global Health
-----------	---

Plus one of the following:

CHL 5702H	History of International Health
CHL 5704H	International Human Rights Law and Global Health
HAD 5768H	International Perspectives on Health Services Management
JCR 1000Y	An Interdisciplinary Approach to Addressing Global Challenges
NUR 1038H	Social Determinants of Health in a Global Context: Theories and Methods
NUR 1083H	Comparative Politics of Health and Health Policy in a Globalizing World

Elective Courses

Students must take one global health elective from outside of their home graduate unit. The elective must be approved by the collaborative specialization director.

Health Care, Technology, and Place

Health Care, Technology, and Place: Introduction

Effective September 2015, admissions to this collaborative specialization have closed.

Lead Faculty of the Collaborative Specialization

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

The graduate programs listed above participate in the Collaborative Doctoral Specialization in Health Care, Technology, and Place (HCTP). The objectives of this collaborative specialization are to:

- Prepare doctoral students to understand, explain, and improve health outcomes associated with technologically mediated health care.
- 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.
- 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 specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. Applicants may apply concurrently to the participating home graduate unit and to the HCTP collaborative specialization. Students follow a course of study acceptable to both the home unit and the HCTP collaborative specialization.

Upon successful completion of the PhD degree requirements of the participating home graduate unit and the collaborative

specialization, students will receive the notation “Completed Collaborative Specialization in Health Care, Technology, and Place” on their transcript.

Contact and Address

Web: www.hctp.utoronto.ca
 Email: hctp.program@utoronto.ca
 Telephone: (416) 978-2067
 Fax: (416) 978-7350

Collaborative Doctoral Specialization in Health Care,
 Technology, and Place
 University of Toronto
 Suite 425, 155 College Street
 Toronto, Ontario M5T 3M6
 Canada

Health Care, Technology, and Place: 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 HCTP collaborative specialization committee:
 - 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 specialization 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.

Specialization 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 graduate unit. The dissertation must address the theme of health care, technology, and place.
- It is the objective of this collaborative specialization to enrich the PhD experience without unduly extending the

duration of students' graduate education. Every student enrolled in the collaborative doctoral specialization must complete the requirements of the collaborative specialization and the requirements of the doctoral program in their home graduate unit. It will be up to each participating home graduate unit to determine whether HCTP courses are completed in addition to the graduate unit's customary course requirements or as a part of those requirements.

Health Care, Technology, and Place: Courses

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

Health Services and Policy Research

Health Services and Policy Research: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Health Policy, Management and Evaluation](#) — MSc, PhD

[Kinesiology](#) — MSc, PhD

[Pharmaceutical Sciences](#) — MSc, PhD

[Public Health Sciences](#) — PhD

[Rehabilitation Science](#) — MSc

[Social Work](#) — PhD

Overview

The Collaborative Specialization 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 Specialization 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 specialization 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 Specialization in Health Services and Policy Research offers graduate training leading to a Diploma in Health Services and Policy Research.

Specific objectives of the collaborative specialization 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 collaborative specialization focuses on the following five areas:

- understanding the Canadian health-care system;
- ability to carry out health services research;
- understanding theories regarding how the health of populations is produced;
- understanding theories of health and health services knowledge production; and
- knowledge exchange and development of research partnerships.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Health Services and Policy Research" on their transcript.

Contact and Address

Web: [ihpme.utoronto.ca/academics/collaborative](http://hpme.utoronto.ca/academics/collaborative)

Email: whit.berta@utoronto.ca

Telephone: (416) 946-5223

Fax: (416) 978-7350

Collaborative Graduate Specialization in Health Services and Policy Research
c/o Dr. Whitney Berta
Institute of Health Policy, Management and Evaluation
University of Toronto
Suite 428, 4th Floor, 55 College Street
Toronto, Ontario M5T 3M6
Canada

Health Services and Policy Research: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- 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.

Specialization Requirements

Students must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit.

- **Coursework.** 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* (Credit/No Credit)
 - 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 specialization. The thesis must address the theme of health services and policy research.

Health Services and Policy Research: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- 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 specialization.
- Students who complete the collaborative specialization at the master's level are not eligible to participate at the PhD level.

Electives

HAD 5011H	Canada's Health Care System and Health Policy
HAD 5021H	Canada's Health System and Health Policy Part 2
HAD 5727H	Knowledge Transfer and Exchange
HAD 5728H	Performance Measurement in Health Care: Theory and Application
HAD 5774H	Comparative Health Care Systems
HAD 5780H	Program Planning and Evaluation for Health Services and Policy Research
HAD 7001H	Reading Course
HSR 1001H	Introduction to Qualitative Methods for Health Services and Policy Research

Specialization Requirements

Students must meet all respective degree requirements of the School of Graduate Studies and the participating graduate unit.

- Coursework.** 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* (Credit/No Credit)
 - 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 specialization. The dissertation must address the theme of health services and policy research.

Health Services and Policy Research: Courses

Required

HSR 1000H	Research and/or Policy Practicum
HSR 1002H	Health Services Research Seminar (Credit/No Credit)

Human Development

Human Development: Introduction

Admissions to the Collaborative Specialization in Human Development have been administratively suspended.

Lead Faculty of the Collaborative Specialization

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 Specialization in Human Development is transdisciplinary, exploring 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 Human Development specialization 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, this collaborative specialization 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 specialization 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Human Development" on their transcript.

Contact and Address

Web: ahd.ca
 Email: humandevelopment@utoronto.ca
 Telephone: (416) 978-8325

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

Human Development: Doctoral Level

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants must submit the following:
 - curriculum vitae (CV);
 - one- to two-page essay explaining the applicant's interest in the collaborative specialization, 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 specialization topic area.

Specialization Requirements

- Students must meet all respective degree requirements of the School of Graduate Studies, the participating home graduate unit, and the collaborative specialization. The collaborative specialization director and/or committee is/are responsible for certifying the completion of the collaborative specialization requirements. The home graduate unit is solely responsible for the approval of the student's home degree program requirements.
- Collaborative specialization 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 and 50% of the seminars thereafter for the duration of the PhD program (SRD 4444H, CR/NCR);
 - attend an annual research day to present their work at least once during registration in the PhD 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 specialization faculty member.

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

Human Development: Courses

Core Courses

HDV 1000H ⁺	Pluralistic Human Development
SRD 4444H	Doctoral Seminar Series

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

Indigenous Health

Indigenous Health: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

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

[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

Indigenous Studies program (undergraduate), Faculty of Arts and Science

Overview

Indigenous Health is offered in collaboration with the Faculty of Arts and Sciences' Indigenous Studies program and the Waakebiness-Bryce Institute for Indigenous Health (WBIH). The main objective is to provide graduate training in Indigenous health research and practice while enhancing mutually beneficial relationships with Indigenous communities and organizations.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Indigenous Health" on their transcript.

Contact and Address

Web: www.dlsph.utoronto.ca/institutes/wbih/collaborative-specialization-in-indigenous-health

Email: wbih.dlsph@utoronto.ca

Telephone: (416) 978-8502

Fax: (416) 978-1883

Collaborative Specialization in Indigenous Health
c/o Waakebiness-Bryce Institute for Indigenous Health (WBIH)
University of Toronto
155 College Street, 4th Floor
Toronto, Ontario M5T 3M7
Canada

Indigenous Health: Master's Level

Admission Requirements

- Applicants who wish to enrol in a collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants must submit a completed [Collaborative Specialization in Indigenous Health \(CSIH\) application form](#) to the CSIH committee.

Specialization Requirements

- All master's students in the collaborative specialization will take the core course CHL 5520H *Indigenous Health* (0.5 full-course equivalent [FCE]).
- In home graduate units where a thesis or major research paper is required, it must deal with an Indigenous health topic. At least one member of the student's thesis committee must be a core faculty member of the collaborative specialization.
- In home graduate units where students undertake a practicum or equivalent, it must focus on an Indigenous health topic and be supervised by a core faculty member of the collaborative specialization.
- Students in coursework-only programs must complete additional coursework in approved Indigenous health electives. For the MEd in Adult Education and Community Development and the MEd in Social Justice Education (Coursework Only Option), 1.0 FCE in additional courses in Indigenous Health are required.
- Students must participate in at least 80% of the Research Seminar Series, held monthly, as well as participate in at least one Indigenous land-based activity.
- Students must complete the requirements of the collaborative specialization in addition to those requirements for the degree program in their home graduate unit.

Indigenous Health: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in a collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants must submit a completed [Collaborative Specialization in Indigenous Health \(CSIH\) application form](#) to the CSIH committee.

Specialization Requirements

- The requirements are the same as for the master's program listed above.
- Students who have previously taken the core course CHL 5520H *Indigenous Health* during their master's program are required to take a different course, approved by the CS director, during their doctoral program.

- Students participate in at least 80% of a new Research Seminar Series held monthly and at least one Indigenous land-based activity.

Indigenous Health: Courses

Core Course

CHL 5520H Indigenous Health

Jewish Studies

Jewish Studies: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Anthropology](#) — MA, PhD
[Art History](#) — 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
[Germanic Literature, Culture and Theory](#) — PhD
[History](#) — MA, PhD
[Information](#) — PhD
[Law](#) — LLM, MSL, SJD
[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 Specialization in Jewish Studies offers both broad and intensive exposure to the constituent fields within Jewish Studies. Because of Jewish civilization's vast chronological and geographical range, as well as its constant interaction and cross-fertilization with other cultures, graduate work within Jewish Studies demands intensive exposure to a wide variety of languages, textual traditions, and scholarly disciplines.

The collaborative specialization involves the graduate master's and doctoral programs listed above. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Jewish Studies" on their transcript.

Contact and Address

Web: www.cjs.utoronto.ca
 Email: cjs.director@utoronto.ca
 Telephone: (416) 978-1624
 Fax: (416) 946-7719

Collaborative Specialization in Jewish Studies
 Anne Tanenbaum Centre for Jewish Studies
 University of Toronto
 170 St. George Street, Suite 218
 Toronto, Ontario M5R 3M8
 Canada

Jewish Studies: Master's Level

Admission Requirements

- In addition to the admission requirements of the home graduate unit, 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.

Specialization 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 graduate unit or in another unit (may count towards the course requirements of the student's home unit).
- 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 unit, 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 collaborative specialization director.

Jewish Studies: Doctoral Level

Admission Requirements

- In addition to the admission requirements of the home graduate unit, 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.

Specialization 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 unit, taught by a member of the CJS faculty (may count towards the course requirements of the student's home unit).
- A doctoral dissertation that deals substantively with topics in Jewish Studies and is supervised or co-supervised by a Jewish Studies 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 must be completed before the completion of the doctoral program.

Jewish Studies: Courses

Not all courses are offered every year. Please consult the graduate unit for information about course availability. **Courses marked with # are taught by Jewish Studies faculty members and incorporate themes within and outside of Jewish Studies.** Major research and writing assignments for such courses must focus on topics in Jewish Studies.

Core Courses

CJS 1000H	Jewish Studies Master's Seminar
CJS 2000H	Jewish Studies Doctoral Seminar

Elective Courses

Anthropology

ANT 5146H#	Colonial and Post-Colonial Discourses
------------	---------------------------------------

Comparative Literature/Germanic Languages and Literatures

JGC 1750H#	Modernity and its Discontents
------------	-------------------------------

English

ENG 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

History

HIS 1267H	Nationalism
HIS 1274H	The Nazis, Occupied Europe, and the Jews
HIS 1276H	The Third Reich and the Holocaust
HIS 1277H	Topics in Jewish History
HIS 1279H	World War II in East Central Europe
HIS 1287H	Polish Jews Since the Partitions of Poland

Medieval Studies

MST 3210H	Medieval Spain
MST 3225H#	Jews and Christians in Medieval and Renaissance Europe

Music

CJS 1010H	Representations of Jews and Jewishness in Opera
-----------	---

Near and Middle Eastern Civilizations

NMC 1100Y#	Introduction to Aramaic
NMC 1101Y#	Early Syriac Texts
NMC 1102Y	Palestinian Aramaic Texts
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#	Readings in Hebrew Bible
NMC 1311Y	Post Biblical Hebrew: Mishnah and Midrashim
NMC 1312H	Midrash Before the Rabbis: The Beginnings of Biblical Interpretation
NMC 1316H	Modern Hebrew Poetry
NMC 1317H	Modern Hebrew Prose
NMC 1318H	Midreshei Halakha: Purity and Cultic Texts
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

Philosophy

Various courses, depending upon their content in a given year. Consult the collaborative specialization director.

PHL 2084H#	Seminar in Nineteenth-Century Continental Philosophy
PHL 2089H#	Seminar in Twentieth-Century Continental Philosophy
PHL 2090H	Hermeneutics

Political Science

POL 2021Y#	Comparative Studies in Jewish and Non-Jewish Political Thought
---------------	---

Religion

RLG 2018H#	Religion and Bioethics
RLG 3103H	Problems in Israelite Religion
RLG 3611H	Hebrew Literature and Religion: Midrash Aggadah
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 (200 BCE–200 CE)

Slavic Languages and Literatures

SLA 1207H	The Imaginary Jew
-----------	-------------------

Knowledge Media Design

Knowledge Media Design: Introduction

Lead Faculty of the Collaborative Specialization

Information

Participating Degree Programs

[Architecture](#) — MArch
[Computer Science](#) — MSc, PhD
[Curriculum and Pedagogy](#) — MA, MEd, PhD
[Drama, Theatre and Performance Studies](#) — MA, PhD
[Information](#) — MI, 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 Specialization in Knowledge Media Design (KMD) was launched in 2002 as the teaching arm of the Knowledge Media Design Institute (KMDI). KMD 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 specialization is open to master's and PhD students in the participating graduate programs listed above. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Knowledge Media Design" on their transcript.

Contact and Address

Web: kmdi.utoronto.ca
 Email: admin.kmdi@utoronto.ca
 Telephone: (416) 978-5634

Collaborative Specialization in Knowledge Media Design
 Knowledge Media Design Institute
 University of Toronto
 Faculty of Information
 John P. Robarts Library Building, 7023A
 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

Knowledge Media Design: Master's Level

Admission Requirements

- Students wanting to apply to the collaborative specialization must be enrolled, or anticipate being enrolled, in a participating degree program. They must apply separately to the collaborative specialization and the home graduate unit.
- Please consult the KMDI website for [application guidelines](#). Admission will be subject to the approval of the graduate unit concerned and the collaborative specialization committee.

Specialization Requirements

MA, MArch, MAsC, MEng (Project Option), MHSc, MLA, MMSt, MSc, MUD, and MVS

- Students must meet all the requirements of their home program.
- Students must successfully complete a total of **1.0 full-course equivalent (FCE)**:
 - KMD 1001H (0.5 FCE);
 - 0.5 elective FCE related to knowledge media and design. 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 (Credit/No Credit).
- The thesis or major research project in the participating degree program should be relevant to the area of knowledge media design, as approved by the home graduate unit and the collaborative specialization committee.
- Students must submit a portfolio that includes completed student coursework and research in knowledge media design. The collaborative specialization committee will review all portfolios for their quality and contribution to the area of knowledge media design. Students' thesis or major research project will be a component of their portfolios.

- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MEd, MEng (Coursework-Only Option)

- Students must meet all the requirements of their home program.
- Students must successfully complete a total of **1.5 full-course equivalents (FCEs)**:
 - KMD 1001H (0.5 FCE);
 - 1.0 elective FCE related to knowledge media and design. 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 (Credit/No Credit).
- Students must submit a portfolio that includes completed student coursework in knowledge media design. The collaborative specialization committee will review all portfolios for their quality and contribution to the area of knowledge media design.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MI (Coursework-Only Option)

- Students must meet all the requirements of their home program.
- Students must successfully complete a total of **2.5 full-course equivalents (FCEs)**:
 - KMD 1001H (0.5 FCE);
 - 2.0 elective FCEs related to knowledge media and design. 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 (Credit/No Credit).
- Students must submit a portfolio that includes completed student coursework in knowledge media design. The collaborative specialization committee will review all portfolios for their quality and contribution to the area of knowledge media design.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Specialization Requirements

MI (Thesis Option)

- Students must meet all the requirements of their home program.
- Students must successfully complete a total of **1.0 full-course equivalents (FCE)**:
 - KMD 1001H (0.5 FCE);
 - 0.5 elective FCE related to knowledge media and design. 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 (Credit/No Credit).
- Students must submit a portfolio that includes completed student coursework and research in knowledge media design. The collaborative specialization committee will review all portfolios for their quality and contribution to the area of knowledge media design. Students' thesis will be a component of their portfolios.
- The thesis in the participating degree program should be relevant to the area of knowledge media design, as approved by the home graduate unit and the collaborative specialization committee.
- Collaborative specialization courses may be taken as electives for the purpose of satisfying home program requirements.

Knowledge Media Design: Doctoral Level

Admission Requirements

- Students wanting to apply to the collaborative specialization must be enrolled, or anticipate being enrolled, in a participating degree program. They must apply separately to the collaborative specialization and the home graduate unit.
- Please consult the KMDI website for [application guidelines](#). Admission will be subject to the approval of the graduate unit concerned and the collaborative specialization committee.

Specialization Requirements

- Students must meet all the requirements of their home program.
- Students must successfully complete a total of **1.5 full-course equivalents (FCEs)**:
 - KMD 1001H and KMD 1002H if not already taken in the master's program, and
 - 0.5 FCE from the KMD series or a list of recognized affiliate courses.
- Students must attend four KMDI Speaker Series Lectures. Attendance will be monitored and appear on the transcript as KMD 2200Y (Credit/No Credit).
- Students must submit a portfolio that includes completed student coursework and research in knowledge media design. The collaborative specialization committee will review all portfolios for their quality and contribution to the area of knowledge media design. Students' portfolios will most often be connected with their dissertation proposal.
- The dissertation topic must be in the area of knowledge media design. The thesis advisor and at least one other committee member must be from participating graduate units.
- The home graduate unit and the student's supervising committee will determine further requirements. The participating graduate units cooperate in jointly developing a program that is tailored to meet the needs of each student.

Knowledge Media Design: Courses

For [courses](#) offered in a particular year, check the KMD website.

Knowledge Media Design

Required

KMD 1001H	Theory and Methods in Knowledge Media Design (required for master's and PhD students)
KMD 1002H	Applications in Knowledge Media (required for PhD students only; elective for master's students)
KMD 2100Y	Master's Seminar (Credit/No Credit)
KMD 2200Y	Doctoral Seminar (Credit/No Credit)

Electives

KMD 2002H	Technologies for Knowledge Media
KMD 2005H*	Modules in Knowledge Media Design (Credit/No Credit) (prerequisite: KMD 1001H)
KMD 3000H	Readings in Knowledge Media Design
KMD 4000H	Knowledge Media Design: Special Topics (prerequisite: KMD 1001H)

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

Participating Graduate Unit Electives

Not all courses are offered every year. Please consult the KMD website for a full list of [eligible electives](#) that meet the KMD collaborative specialization requirements. Courses that are mandatory for a student's degree from the home graduate unit 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.

Architecture; Landscape Architecture; Urban Design; Visual Studies

LAN 1021H	Visual Communication 1
LAN 1022H	Visual Communication 2
LAN 1031H	History Theory Criticism 1
LAN 1032H	History Theory Criticism 2
URD 1031H	The History of Toronto Urban Form
URD 1041H	Introduction to Urban Design Theory
VIS 1010H	Contemporary Art Since 1960
VIS 1020H	Contemporary Art: Theory and Criticism
VIS 1101H	Paradigmatic Exhibitions: History, Theory, Criticism

Computer Science

CSC 2514H	Human-Computer Interaction
CSC 2526H	HCI: Topics in Ubiquitous Computing
CSC 2537H	Information Visualization
CSC 2552H	Topics in Computational Social Science
CSC 2556H	Algorithms for Collective Decision Making
CSC 2720H	Systems Thinking for Global Problems

Curriculum and Pedagogy; Language and Literacies Education

CTL 1602H	Introduction to Computers in Education
CTL 1608H	Constructive Learning and Design of Online Environments
CTL 1609H	Educational Applications of Computer-Mediated Communication
CTL 1926H	Knowledge Media and Learning
CTL 5015H	Special Topics in Curriculum: Master's Level

Drama, Theatre and Performance Studies

DRA 3904H	Topics in Theatre, Drama, and Performance
DRA 3908H	Topics in Theatre, Drama, and Performance

Information

INF 1602H	Fundamentals of User Experience
INF 2122H	Digital Preservation and Curation
INF 2169H	User-Centred Information Systems Development
INF 2170H	Information Architecture
INF 2191H	User Interface Design
INF 2192H	Representing UX
INF 2197H	Special Topics in 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
INF 2303H	Special Topics in Information
INF 2306H	Special Topics in Information
INF 2320H	Remix Culture
INF 2330H	Information Ethnography
INF 2331H	The Future of the Book

Mechanical and Industrial Engineering

MIE 1401H	Human Factors Engineering
MIE 1402H	Experimental Methods in Human Factors Research

Medical Science

MSC 1002H	Overview of Methods in Practices and Contexts
MSC 1003H	Rhetoric of Science

Museum Studies

MSL 2000H	Curatorial Practice
MSL 2325H	Museums and New Media Practice
MSL 2330H	Interpretation and Meaning-Making in Cultural Institutions
MSL 2500H	Constructing and Curating Digital Heritage

Religion

RLG 2023H	Religion, Media, and Culture
-----------	------------------------------

Mediterranean Archaeology

Mediterranean Archaeology: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Anthropology](#) — PhD

[Art History](#) — PhD

[Classics](#) — PhD

[Near and Middle Eastern Civilizations](#) — PhD

[Religion](#) — PhD

Supporting Units

Archaeology Centre

Overview

The Mediterranean Archaeology Collaborative Specialization (MACS) will expose students to the range of current approaches on the cutting-edge of Mediterranean archaeology. The Mediterranean offers unrivalled opportunities for exploring the complexities of economic, social, political, and religious change over centuries and millennia, across a vast area that is at once a coherent unit and a region with incredible diversity.

Students will be trained in the various methods required to undertake innovative research in the Mediterranean's varied prehistoric and historic contexts. Upon successful completion of the PhD requirements of the home graduate unit and the collaborative specialization, students will receive the notation "Completed Mediterranean Archaeology Collaborative Specialization" on their transcript.

Contact and Address

Web: www.archaeology.utoronto.ca/macs.html and macs.utoronto.ca

Email: archaeology@utoronto.ca

Telephone: (416) 978-5248

Fax: (416) 978-3217

Mediterranean Archaeology Collaborative Specialization
Archaeology Centre, University of Toronto
19 Russell Street
Toronto, Ontario M5S 2S2
Canada

Mediterranean Archaeology: Doctoral Level

Admission Requirements

- Applicants to the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. 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 collaborative specialization committee.
- Students requesting admission to the collaborative specialization following admission to a degree program should [contact the specialization committee](#) in order to formalize their admission to MACS.

Specialization Requirements

- **Coursework.** Students must complete **1.0 full-course equivalent (FCE)**: MAC 1000Y *Methods in Mediterranean Archaeology*.
- **Fieldwork** (MAC 2000H) four weeks of participation on an approved archaeological excavation, survey, or study season in the Mediterranean.
- **Thesis.** The topic must be in the area of Mediterranean archaeology, ancient history, or classical archaeology.

Mediterranean Archaeology: Courses

Core Courses

MAC 1000Y	Methods in Mediterranean Archaeology
MAC 2000H	Mediterranean Archaeology Fieldwork (Credit/No Credit)

Musculoskeletal Sciences

Musculoskeletal Sciences: Introduction

Lead Faculty of the Collaborative Specialization

Medicine

Participating Degree Programs

[Biomedical Engineering](#) — MSc, PhD

[Dentistry](#) — MSc, PhD

[Kinesiology](#) — MSc, PhD

[Laboratory Medicine and Pathobiology](#) — MSc, PhD

[Medical Science](#) — MSc, PhD

[Pharmacology and Toxicology](#) — MSc, PhD

[Rehabilitation Science](#) — MSc, PhD

Overview

There is an increasing burden of illness related to musculoskeletal disorders. The Collaborative Specialization in Musculoskeletal Sciences 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 collaborative specialization 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 specialization builds on this community to provide a unique education and training program.

Musculoskeletal Sciences interests graduate students wishing to enhance their interdisciplinary knowledge and advance their careers. Participation in this collaborative specialization enhances professional contacts throughout the international musculoskeletal research community. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Musculoskeletal Sciences" on their transcript.

Contact and Address

Web: tmc.utoronto.ca

Email: msk.admin@utoronto.ca

Telephone: (416) 978-0841

Fax: (416) 978-6395

Collaborative Specialization in Musculoskeletal Sciences

Dr. Jane Mitchell

1 King's College Circle, Room 4342

Toronto, Ontario M5S 1A8

Canada

Musculoskeletal Sciences: Master's Level

Admission Requirements

- Applicants who wish to enrol in Musculoskeletal Sciences must apply to and be admitted to both a graduate degree program in one of the participating units and to the collaborative specialization. In addition to the application requirements of the home degree program, the collaborative specialization requires:
 - a curriculum vitae (CV)
 - a one-page letter explaining how the applicant's plan 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.

Specialization Requirements

- Meet all requirements of the home degree program and the collaborative specialization.
- 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 — Compulsory Attendance* (Credit/No Credit).
- Complete a thesis or major project or placement in the area of musculoskeletal sciences under the supervision of a collaborative specialization core faculty member.

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

Musculoskeletal Sciences: Doctoral Level

Students enrolled in the collaborative specialization 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 specialization requirements.

Admission Requirements

- Applicants who wish to enrol in Musculoskeletal Sciences must apply to and be admitted to both a graduate degree

program in one of the collaborating units and to the collaborative specialization. In addition to the application requirements of the home degree program, the collaborative specialization requires:

- a curriculum vitae (CV)
- one-page letter explaining how the applicant's plan 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.

Specialization Requirements

- Meet all requirements of the home degree program and collaborative specialization.
- 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 specialization 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 specialization to a doctoral degree and the doctoral collaborative specialization 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 specialization core faculty member.
- In the rare instance that a student who has completed the collaborative specialization at the master's level wishes to also enrol in the collaborative specialization 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.

Musculoskeletal Sciences: Courses

MSC 3001H	Foundations in Musculoskeletal Science
SRM 3335H ⁺	Master's Seminar Series — Compulsory Attendance
SRD 4445H ⁺	Doctoral Seminar Series — Compulsory Attendance

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

Neuroscience

Neuroscience: Introduction

Lead Faculty of the Collaborative Specialization

Medicine

Participating Degree Programs

[Biochemistry](#) — MSc, PhD
[Bioethics](#) — MHSc
[Biomedical Engineering](#) — MASc, PhD
[Cell and Systems Biology](#) — MSc, PhD
[Clinical Engineering](#) — MHSc
[Community Health](#) — MScCH
[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
[Public Health Sciences](#) — MPH, MSc, PhD
[Rehabilitation Science](#) — MSc, PhD
[Speech-Language Pathology](#) — MSc, PhD

Overview

The graduate programs listed above participate in the Collaborative Specialization in Neuroscience.

Participating graduate units contribute courses and provide facilities and supervision for graduate research. Students must follow a plan of studies acceptable to both the participating unit and the Neuroscience collaborative specialization. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Neuroscience" on their transcript.

Students interested in joining the specialization should visit 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 specialization, their graduate unit affiliations and contact information, as well as additional information on neuroscience courses.

Students in the specialization receive the Neuroscience newsletter and notification about neuroscience lectures held on campus. The collaborative specialization 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 Specialization in Neuroscience
 University of Toronto
 Room 3306, 1 King's College Circle
 Toronto, ON M5S 1A8
 Canada

Neuroscience: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating units.

Specialization Requirements

- The thesis topic must be in the neuroscience area.
- The student's supervisor must be a core faculty member of the Collaborative Specialization in Neuroscience.
- All master's-level students must complete at least 0.5 full-course equivalent (FCE) chosen from the list of courses approved by the collaborative specialization, as listed below.
- The student must attend the Annual Collaborative Specialization in Neuroscience Research Day at least once.
- The student must complete NEU 1000H *Neuroscience Distinguished Lecture Series (Master's)* by attending at least 70% of the lectures in the CPIN Distinguished Lectureship Series (including the Raymond and Beverly Sackler Distinguished Visiting Neuroscientist Lecture) or CPIN Emerging Leaders in Neuroscience Lecture Series, during one academic year (or a minimum of seven lectures in total over the program). As part of the seminar series, the student must present his/her work at least once at the CPIN Research Day.

Neuroscience: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating units.

Specialization Requirements

- The thesis topic must be in the neuroscience area.
- The student's supervisor must be a core faculty member of the Collaborative Specialization in Neuroscience.

- 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 determined by the collaborative specialization committee and posted on the Neuroscience website in July of each year.
- The student must attend the Annual Collaborative Specialization in Neuroscience Research Day at least twice.
- The student must complete NEU 2000H *Neuroscience Distinguished Lecture Series (Doctoral)* by attending at least 70% of the lectures in the CPIN Distinguished Lectureship Series (including the Raymond and Beverly Sackler Distinguished Visiting Neuroscientist Lecture) or CPIN Emerging Leaders in Neuroscience Lecture Series, during three academic years (or a minimum of 21 lectures in total over the program). As part of the seminar series, the student must present his/her work at least twice at the CPIN Research Day.
- MSc or MA students who have completed the Neuroscience specialization 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 requirements.

Neuroscience: Courses

Neuroscience courses offered by the participating units are listed below. Not all courses are offered each year.

APD 3286H	Developmental Neurobiology
APD 5000H	Special Topics in Applied Psychology and Human Development: Master's Level
CSC 2506H	Probabilistic Learning and Reasoning
CSC 2515H	Introduction to Machine Learning
CSC 2523H	Object Modelling and Recognition
CSC 2545H	Kernel Methods and Support Vector Machines
DEN 1060H	Oral Physiology: Sensory and Neuromuscular Function
JEB 1444H	Neural Engineering
JNP 1017H ⁺	Current Topics in Molecular and Biochemical Toxicology
JNP 1018H ⁺	Molecular and Biochemical Basis of Toxicology
JNR 1444Y	Fundamentals of Neuroscience: Cellular and Molecular — Lectures
JNS 1000Y	Fundamentals of Neuroscience: Systems and Behaviour
JPB 1071H	Advanced Topics: Computational Neuroscience
JPM 1005Y	Behavioural Pharmacology
JPY 1007Y	Neuropharmacology of Neurotransmitter Receptors
JYG 1555H	Advanced Topics: Cellular and Molecular Neurobiology
LMP 2222H	Neurodegenerative Disease — Mechanisms, Models, and Methods
MSC 1006H	Neuroanatomy
MSC 1081H	Studies in Schizophrenia

MSC 1085H	Molecular Approaches to Mental Health and Addictions
MSC 1087H	Neuroimaging Methods Using Magnetic Resonance Imaging
MSC 1088H	Brain Positron Emission Tomography
MSC 6000H	Special Topics Reading Course (requires prior permission of the Neuroscience Program Director)
MUS 2122H	Music and Brain
MUS 7110H	Neurosciences of Music: Scientific Foundations, Clinical Translations
NEU 1000H ⁰	Neuroscience Distinguished Lecture Series (Master's) (Credit/No Credit)
NEU 2000H ⁰	Neuroscience Distinguished Lecture Series (Doctoral) (Credit/No Credit)
PSL 1024H	Advanced Topics: 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 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 1200H	Selected Topics in Psychology
PSY 4706H	Human Brain Neuroanatomy
PSY 5101H	Mechanisms of Behaviour
PSY 5103H	Learning and Plasticity
PSY 5104H	Neuropsychology Advanced Courses
PSY 5110H	Advanced Topics in Behavioural Neuroscience I
PSY 5111H	Advanced Topics in Behavioural Neuroscience II
PSY 5112H	Advanced Topics in Behavioural Neuroscience III
PSY 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 Development 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. Credit is given when the course is completed.

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

Other Courses

Courses not specifically in neuroscience which do not fulfil the requirements as neuroscience courses but might be useful for neuroscience students.

JBL 1507H	Biochemistry of Inherited Disease
JDB 1025H	Developmental Biology
PHM 1122H	Fundamentals of Drug Discovery
PSY 5102H	Motivational Processes
SLP 1522Y	Speech Physiology and Acoustics
SLP 1533Y	Aphasia
SLP 3001H	Theoretical Foundations of Communication Sciences

Psychology and Engineering

Psychology and Engineering: Introduction

Lead Faculty of the Collaborative Specialization

Applied Science and Engineering

Participating Degree Programs

[Civil Engineering](#) — MSc, PhD

[Electrical and Computer Engineering](#) — MSc, PhD

[Mechanical and Industrial Engineering](#) — MSc, PhD

[Psychology](#) — MA, PhD

Supporting Units

Department of Mechanical and Industrial Engineering

Overview

The Collaborative Master's Specialization in Psychology and Engineering (PsychEng) is between the Departments of Mechanical and Industrial Engineering, Civil and Mineral Engineering, Electrical and Computer Engineering in the Faculty of Applied Science and Engineering, and the Department of Psychology in the Faculty of Arts and Science.

Engineering involves the creative application of science to the design of systems, processes, structures, and technologies. Psychology is a science that focuses on the mind and behaviour of people and animals to understand individuals and groups across all levels of analyses, from the cellular to the cultural. The Psychology and Engineering collaborative specialization supports graduate students and faculty interested in contributing to the growing interdisciplinary scholarship at the nexus of psychology and engineering. Fields of study that may benefit from this collaborative specialization include, but are not limited to: human factors, design theory and methodology, artificial intelligence and information engineering, operations research, and robotics. This specialization strengthens ties between the two departments, and may propel research of interest to both beyond what is possible individually.

Upon successful completion of the master's and/or doctoral degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Psychology and Engineering" on their transcript.

Contact and Address

Web: gradstudies.engineering.utoronto.ca/collaborative-specialization-psychology-engineering-psycheng

Email: psych_eng@mie.utoronto.ca

Telephone: (416) 946-3028

Fax: (416) 978-7753

Collaborative Specialization in Psychology and Engineering
Department of Mechanical and Industrial Engineering
University of Toronto
5 King's College Road
Toronto, Ontario M5S 3G8
Canada

Psychology and Engineering: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Applicants must provide:
 - A statement of purpose that describes background experience relating to psychology and engineering, and motivation for pursuing studies in PsychEng. Complete the online [application form](#).
 - A supervisor's letter of recommendation in support of the student's application to PsychEng.

Specialization Requirements

- Two sessions of APS 1305H *PsychEng Seminar Series* — Master's Level (Credit/No Credit) worth 0.0 full-course equivalent (FCE).
- Two PsychEng elective half courses (1.0 FCE). One of the courses must be from the other discipline. Students from either discipline (psychology or engineering) should first consult with the instructor before registering for a course in the other discipline to ensure adequate fit in terms of interest and preparation.
- A thesis focused on a topic in the area of the collaborative specialization.
- All students enrolled in the collaborative specialization must complete the requirements of the collaborative specialization, in addition to those requirements for the degree program in their home graduate unit. The collaborative specialization director and/or specialization committee is/are responsible for certifying the completion of the collaborative specialization requirements. The home graduate unit is solely responsible for the approval of the student's home degree requirements.

Psychology and Engineering: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to a doctoral-level graduate degree program in one of the collaborating graduate units.
- Applicants must provide:

- A statement of purpose that describes the applicant's background experience relating to psychology and engineering, and motivation for pursuing studies in PsychEng. Complete the online [application form](#).
- A supervisor's letter of recommendation in support of the student's application to PsychEng.

Specialization Requirements

- Two sessions of APS 1308Y *PsychEng Seminar Series — PhD Level (Credit/No Credit)* worth 0.0 full-course equivalent (FCE).
- Two PsychEng elective half courses (1.0 FCE). One of the courses must be from the other discipline. Students from either discipline (psychology or engineering) should first consult with the instructor before registering for a course in the other discipline to ensure adequate fit in terms of interest and preparation.
- A thesis focused on a topic in the area of the collaborative specialization.
- Students who have completed the PsychEng collaborative specialization at the master's level must take the core seminar course at the PhD level, which requires a higher level of participation; i.e., present more frequently and/or take a leadership role in seminar activities such as the discussion of research papers. Students take two further (different) PsychEng electives during their doctoral program, and their research will be at a level appropriate to a PhD degree.
- All students enrolled in the collaborative specialization must complete the requirements of the collaborative specialization, in addition to those requirements for the degree program in their home graduate unit. The collaborative specialization director and/or specialization committee is/are responsible for certifying the completion of the collaborative specialization requirements. The home graduate unit is solely responsible for the approval of the student's home degree requirements.

Mechanical and Industrial Engineering

MIE 1070H	Intelligent Robots for Society
MIE 1402H	Experimental Methods in Human Factors Research
MIE 1403H	Analytical Methods in Human Factors Research
MIE 1412H	Human-Automation Interaction
MIE 1415H	Analysis and Design of Cognitive Work
MIE 1505H	Enterprise Modelling
MIE 1510H	Formal Techniques in Ontology Engineering
MIE 1720H	Creativity in Conceptual Design

Psychology

PSY 1000H	Directed Studies
Department of Psychology courses offered in the 5000 series; contact the department for exclusions.	

⁰ Course that may continue over a program. Credit is given when the course is completed.

Psychology and Engineering: Courses

Core Course

APS 1305H	PsychEng Seminar Series—Master's Level (Credit/No Credit)
APS 1308Y ⁰	PsychEng Seminar Series—Doctoral Level (Credit/No Credit)

Elective Courses

Civil Engineering

CIV 1320H	Indoor Air Quality
-----------	--------------------

Electrical and Computer Engineering

ECE 1774H	Sensory Cybernetics (suitable for Engineering students only)
ECE 1778H	Creative Applications for Mobile Devices
JEB 1444H	Neural Engineering (suitable for Engineering students only)

Public Health Policy

Public Health Policy: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Health Administration](#) — MHS

[Health Policy, Management and Evaluation](#) — MSc, PhD

[Kinesiology](#) — MSc, PhD

[Nutritional Sciences](#) — MSc, PhD

[Public Health Sciences](#) — MPH, MSc, PhD

[Public Policy](#) — MPP

[Social Work](#) — MSW, PhD

Supporting Units

Dalla Lana School of Public Health

Overview

The Collaborative Specialization in Public Health Policy provides students with exemplary training in public health policy, which fosters synergies and cross-disciplinary 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 specialization 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 specialization, 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Public Health Policy" on their transcript.

Contact and Address

Web:

www.publichealthpolicy.utoronto.ca/collaborativeprogram.html

Email: publichealthpolicy@utoronto.ca

Telephone: (416) 978-6512

Fax: (416) 946-0340

Collaborative Specialization in Public Health Policy
University of Toronto
Suite 534, 155 College Street
Toronto, Ontario M5T 3M7
Canada

Public Health Policy: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Complete the [application form](#) available on the website.
- Curriculum vitae (CV) (maximum length: five pages).
- Two-page, free-form essay outlining:
 - interest in public health policy
 - aspirations
 - learning goals
 - career plans
 - specific research plans (if in a research program of study)
 - 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 specialization.

Specialization Requirements

- Individual student plans of study must meet the requirements of both the home graduate unit and the collaborative specialization. To fulfil the requirements of the collaborative specialization, 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 specialization'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 specialization must complete the requirements of the collaborative specialization, in addition to those requirements for the degree program in their home graduate unit.

Public Health Policy: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- Complete the [application form](#) available on the website.
- Curriculum vitae (CV) (maximum length: five pages).
- Two-page, free-form essay outlining:
 - interest in public health policy
 - aspirations
 - learning goals
 - career plans
 - specific research plans
 - 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 specialization.

Specialization Requirements

- Individual student plans of study must meet the requirements of both the home graduate unit and the collaborative specialization.
- To fulfil the requirements of the collaborative specialization, students must complete the following:
 - Undertake thesis research with a public health policy focus under the supervision of one of the collaborative specialization'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 specialization must complete the requirements of the collaborative specialization, in addition to those requirements for the degree program in their home graduate unit.

Public Health Policy: Courses

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
HAD 5011H	Canada's Health Care System and Health Policy (Doctoral Stream)
PPG 1001H	The Policy Process
SRM 3333H	Public Health Policy Seminar Series (Master's Level)

Resuscitation Sciences

Resuscitation Sciences: Introduction

Lead Faculty of the Collaborative Specialization

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](#) — MAsC, MEng, PhD
[Medical Science](#) — MSc, PhD
[Nursing Science](#) — MN, PhD
[Pharmacology](#) — MSc, PhD
[Physiology](#) — MSc, PhD
[Public Health Sciences](#) — MPH, MSc, PhD
[Rehabilitation Science](#) — MSc, PhD

Overview

The goal of the Collaborative Specialization 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 collaborative specialization 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 specialization. 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 specialization. Students must follow a course of study acceptable to both the home unit and the collaborative specialization. Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Resuscitation Sciences" on their transcript.

Contact and Address

Web: www.resuscitationscience.ca
 Email: csrsinfo@smh.ca
 Telephone: (416) 864-6060 ext. 7843
 Fax: (416) 864-5934

Collaborative Specialization in Resuscitation Sciences
 c/o Rescu, St. Michael's Hospital
 30 Bond Street
 Toronto, Ontario M5B 1W8
 Canada

Resuscitation Sciences: Master's Level

Admission Requirements

- Collaborative specializations 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 Specialization in Resuscitation Sciences.
- Applicants must submit the following to the collaborative specialization committee:
 - a resumé or curriculum vitae (CV)
 - a personal statement explaining how their course 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.

Specialization 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 course of study) in the area of resuscitation sciences under the supervision of a faculty member affiliated with the collaborative specialization
 - present their research at least once at either the Resuscitation in Motion scientific meeting or in the Foundations MSC 4001H core course.

Resuscitation Sciences: Doctoral Level

Admission Requirements

- Collaborative specializations 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 Specialization in Resuscitation Sciences.
- Applicants must submit the following to the collaborative specialization committee:
 - a resumé or curriculum vitae (CV)
 - a personal statement explaining how their course 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.

Specialization 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 Resuscitation in Motion scientific meeting or in the Foundations MSC 4001H core course.

Resuscitation Sciences: Courses

MSC 4001H	Foundations in Resuscitation Science Research
MSC 4002H	Advanced Topics in Resuscitation Science Research (PhD students only)
SRM 3333H	Resuscitation Sciences Graduate Seminar Series (master's level)
SRD 4444H	Resuscitation Sciences Graduate Seminar Series (doctoral level)

Sexual Diversity Studies

Sexual Diversity Studies: Introduction

Lead Faculty of the Collaborative Specialization

Arts and Science

Participating Degree Programs

[Adult Education and Community Development](#) — MA, MEd, PhD

[Anthropology](#) — MA, MSc, PhD

[Art History](#) — MA, PhD

[Cinema Studies](#) — MA

[Classics](#) — MA, PhD

[Comparative Literature](#) — MA, PhD

[Counselling and Clinical Psychology](#) — MA, PhD

[Counselling Psychology](#) — MEd, EdD

[Criminology and Sociolegal Studies](#) — MA, PhD

[Curriculum and Pedagogy](#) — 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

[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

[Immunology](#) — PhD

[Information](#) — MI, PhD

[Italian Studies](#) — MA, PhD

[Kinesiology](#) — MSc, PhD

[Law](#) — LL.M., 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

[Slavic Languages and Literatures](#) — MA, PhD

[Social Justice Education](#) — MA, MEd, EdD, PhD

[Social Work](#) — MSW, PhD

[Sociology](#) — MA, PhD

[Sustainability Management](#) — MScSM

[Visual Studies](#) — MVS

[Women and Gender Studies](#) — MA, PhD

Supporting Unit

Mark S. Bonham Centre for Sexual Diversity Studies

Overview

The Collaborative Specialization in Sexual Diversity Studies, offered by the Mark S. Bonham Centre for Sexual Diversity Studies, is rigorously interdisciplinary and recognizes 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 specialization. From their home graduate units, 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Sexual Diversity Studies" on their transcript.

Contact and Address

Web: sds.utoronto.ca

Email: sexual.diversity@utoronto.ca

Telephone: (416) 978-6276 for general inquiries

Fax: (416) 971-2027

Director, Sexual Diversity Studies Collaborative Specialization
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

Sexual Diversity Studies: Master's Level

Admission Requirements

- Each graduate student in the collaborative specialization 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 specialization.

Specialization 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 specialization 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 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 specialization director.

Sexual Diversity Studies: Doctoral Level

Admission Requirements

- Each graduate student in the collaborative specialization 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 specialization.

Specialization 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 specialization 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 specialization 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 specialization director.
- The doctoral thesis committee should include at least one faculty member associated with Sexual Diversity Studies. In most cases, the supervisor would be associated with Sexual Diversity Studies, 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 specialization director, though ultimate responsibility for the student's progress will remain with the graduate chair of the home program.

Sexual Diversity Studies: Courses

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)

South Asian Studies

South Asian Studies: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization 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 South Asian Studies 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 specialization, 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 specialization must apply to one of the participating graduate programs.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in South Asian Studies" on their transcript.

Contact and Address

Web: munkschool.utoronto.ca/csas/graduate-study
 Email: southasian.grad@utoronto.ca

Telephone: (416) 946-8832
 Fax: (416) 946-8838
 Collaborative Specialization in South Asian Studies
 Centre for South Asian Studies
 Munk School of Global Affairs and Public Policy
 University of Toronto
 Room 228N, 1 Devonshire Place
 Toronto, Ontario M5S 3K7
 Canada

South Asian Studies: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. 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 collaborative specialization committee.

Specialization 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.

South Asian Studies: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units. 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 collaborative specialization committee.

Specialization 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 collaborative specialization administrator for review by the collaborative specialization director and potentially shared online.
- The dissertation to include a significant South Asian component.
- A research presentation to the collaborative specialization committee on a South Asian topic in Year 3 or Year 4.
- Language requirement, depending on the student's area of specialization.

South Asian Studies: Courses

Core Course

SAS 2004H Issues in South Asian Studies

Toxicology

Toxicology: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization in Toxicology provides graduate students with a unique opportunity to gain breadth and depth of knowledge in toxicology beyond their thesis research area. This collaborative specialization aims to prepare participants for careers related to toxicology. It emphasizes the development of critical thinking and effective communication skills in addition to acquiring greater knowledge of basic principles and specific aspects of toxicology.

The graduate programs listed above participate in this collaborative specialization. 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 units other than the participating units listed who are interested in pursuing a program in toxicology should speak to the Director of the Collaborative Specialization in Toxicology and the graduate advisor(s) in their home graduate unit to discuss the possibility. Detailed information is available on the [Toxicology website](#) and from the [Department of Pharmacology and Toxicology](#).

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Toxicology" on their transcript.

Contact and Address

Web: <https://pharmtox.utoronto.ca/cst>

Email: pharmtox.dept@utoronto.ca

Telephone: (416) 978-3851

Collaborative Specialization in Toxicology
Department of Pharmacology and Toxicology
University of Toronto, Medical Sciences Building
Room 4207, 1 King's College Circle
Toronto, Ontario M5S 1A8 Canada

Toxicology: Master's Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must first apply to and be admitted by one of the participating home graduate units under its regulations. Once students have been admitted to their home graduate unit, they should register in the Collaborative Specialization in Toxicology by contacting the collaborative specialization director.

Specialization Requirements

- Students must complete JNP 1016H *Graduate Seminar in Toxicology*.
- Students may be required to take JNP 1014Y *Interdisciplinary Toxicology* if they have not previously completed coursework in advanced toxicology.
- Students must attend a minimum of six academic seminars related to toxicology during the master's program.
- Students must complete a research thesis or project as required by the home graduate unit. It is understood that the research topic will be in the area of toxicology.

Toxicology: Doctoral Level

Admission Requirements

- Applicants who wish to enrol in the collaborative specialization must first apply to and be accepted by one of the participating home graduate units under its regulations. Once students have been admitted to their home graduate unit, they should register in the Collaborative Specialization in Toxicology by contacting the collaborative specialization director.

Specialization Requirements

- Students must complete JNP 1016H *Graduate Seminar in Toxicology*, plus a 0.5 full-course equivalent (FCE) in the area of toxicology (approved by the collaborative specialization director). The home unit and the collaborative specialization director will decide whether these courses are in addition to, or substitutions for, requirements of the home graduate unit.
- Students may be required to take JNP 1014Y *Interdisciplinary Toxicology* if they have not previously completed coursework in advanced toxicology.
- Students must attend a minimum of 12 academic seminars related to toxicology during the doctoral specialization.
- Students must complete a research thesis or project as required by the home graduate unit. It is understood that the research topic will be in the area of toxicology.

Toxicology: Courses

JNP 1014Y	Interdisciplinary Toxicology
-----------	------------------------------

JNP 1016H	Graduate Seminar in Toxicology (prerequisite or co-requisite: JNP 1014Y)
-----------	---

Women and Gender Studies

Women and Gender Studies: Introduction

Lead Faculty of the Collaborative Specialization

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 and Sociolegal Studies](#) — MA, PhD

[Curriculum and Pedagogy](#) — 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

[French Language and Literature](#) — MA, PhD

[Geography](#) — MA, MSc, PhD

[Germanic Languages and Literatures](#) — MA

[Germanic Literature, Culture and Theory](#) — PhD

[Health Administration](#) — MHS

[Health Policy, Management and Evaluation](#) — MSc, PhD

[Higher Education](#) — MA, MEd, EdD, PhD

[History](#) — MA, PhD

[Information](#) — MI, PhD

[Kinesiology](#) — MSc, PhD

[Language and Literacies Education](#) — MA, MEd, PhD

[Law](#) — LL.M., 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

Overview

The Graduate Collaborative Specialization 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 Collaborative Specialization offers a rich interdisciplinary environment in which to grapple with how gender and sexuality are entangled with questions of race, citizenship, embodiment, colonialism, nation, global capitalism, violence, political economy, cultural formations, aesthetics, and other pressing concerns.

The graduate programs listed above participate in the Collaborative Specialization in Women and Gender Studies at the University of Toronto. The collaborating units contribute courses and provide facilities and supervision for graduate research. The collaborative specialization is administered by the Women and Gender Studies Institute (WGSi), bringing 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 graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Women and Gender Studies" on their transcript.

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 Specialization in Women and Gender Studies

Women and Gender Studies Institute

University of Toronto

Room 2036, Wilson Hall, New College

Toronto, Ontario M5S 1C6

Canada

Women and Gender Studies: Courses

Core Courses

WGS 5000H	Feminist Theories, Histories, Movements I
WGS 5001H	Feminist Theories, Histories, Movements II

Elective Courses

For [courses](#) offered by WGSi and cross-listed by the participating units offered in a particular year, check the collaborative specialization website.

Women's Health

Women's Health: Introduction

Lead Faculty of the Collaborative Specialization

Public Health

Participating Degree Programs

[Anthropology](#) — MA, MSc, PhD
[Dentistry](#) — MSc, PhD
[English](#) — MA, PhD
[Health Policy, Management and Evaluation](#) — MSc, PhD
[Immunology](#) — MSc, PhD
[Information](#) — PhD
[Kinesiology](#) — MSc, 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 Collaborative Graduate Specialization in Women's Health provides interdisciplinary training in women's health research and practice for graduate students at the University of Toronto with the goal of:

- helping students develop shared understandings of the complex interactions of biology and environment, sex and gender;
- providing students with the necessary skill set to undertake and lead interdisciplinary, collaborative health-care research projects; and
- enhancing mutually beneficial relationships among researchers and practitioners of women's health across the University and its 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 Specialization in Women's Health. Applicants must comply with the admission procedures of that unit. There is no deadline to apply to this collaborative specialization; applications will be reviewed as they are received.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Women's Health" on their transcript.

Contact and Address

Web: www.dlsph.utoronto.ca/programs/collaborative-specialization-in-womens-health
 Email: Maya.Strasser@wchospital.ca
 Telephone: (416) 351-3732 ext. 3824

Janice Du Mont, Director
 Collaborative Graduate Specialization in Women's Health
 c/o Women's College Research Institute, Women's College Hospital
 76 Grenville Street, 6th floor
 Toronto, Ontario M5S 1B2
 Canada

Women's Health: Master's Level

Admission Requirements

- Applicants must be registered with the School of Graduate Studies through an affiliated home graduate unit. Before applying to the Women's Health collaborative specialization, applicants must comply with the admission procedures of their home graduate unit.
- Applicants must submit the following for review by the Executive Committee:
 - a curriculum vitae (CV)
 - a personal statement (via a concise letter no longer than one to five paragraphs) describing relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in women's health.

Specialization Requirements

- To successfully complete the collaborative specialization, students must also successfully complete the requirements of their home graduate unit.
- 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. Students will be encouraged to build relationships with peers and faculty that cross disciplinary boundaries.
- In instances where home graduate units require a thesis, it is desirable, but not required, that this work be relevant to women's health.

Women's Health: Doctoral Level

Admission Requirements

- Applicants must be registered with the School of Graduate Studies through an affiliated home graduate unit. Before applying to the Women's Health collaborative specialization, applicants must comply with the admission procedures of their home graduate unit.
- Applicants must submit the following for review by the Executive Committee:
 - a curriculum vitae (CV)
 - a personal statement (via a concise letter no longer than one to five paragraphs) describing relevant personal and/or professional experiences, a career plan, and motivation in seeking advanced training in women's health.

Specialization Requirements

- To successfully complete the collaborative specialization, students must also successfully complete the requirements of their home graduate unit.
- 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.
- Students must participate in **at least six of the eight** monthly sessions in the **Student Research Seminar Series** and present their completed or in-progress research at one of the seminars. Students will be encouraged to build relationships with peers and faculty that cross disciplinary boundaries.
- In addition to their home graduate unit supervisor, students must also identify a mentor — a faculty member of the collaborative specialization whose own methodologies represent a different approach than that used by the student's primary mentor.
- 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 mentor, who both sign study/research plan.
- Complete a dissertation on a topic relevant to women's health.

Women's Health: Courses

Core Course

CHL 5109H Gender and Health

Workplace Learning and Social Change

Workplace Learning and Social Change: Introduction

Lead Faculty of the Collaborative Specialization

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 Specialization 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 collaborative specialization has three intellectual objectives:

- to situate workplace learning within broader social trends such as globalization, neoliberalism, and organizational restructuring;
- to allow exploration of the connections between learning as an individual phenomenon and learning as a social/organizational and public policy phenomenon; and
- 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 specialization must apply to and be accepted by both the graduate unit and the collaborative specialization. For admission, applicants should submit a statement of interest to the collaborative specialization director.

Upon successful completion of the degree requirements of the participating home graduate unit and the collaborative specialization, students will receive the notation "Completed Collaborative Specialization in Workplace Learning and Social Change" on their transcript.

Contact and Address

Web:

www.oise.utoronto.ca/lhae/Collaborative_Specializations/Workplace_Learning_and_Social_Change

Collaborative Specialization 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

Workplace Learning and Social Change: Master's Level

Admission Requirements

- Applicants must apply to and be admitted to both the collaborative specialization and a graduate degree program in one of the collaborating graduate units.
- 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).

Specialization Requirements

- Individual student programs of study must meet the requirements of both the home graduate unit and the collaborative specialization. Normally, the selection of courses to satisfy the collaborative specialization 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 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 specialization core faculty will serve as supervisor or committee member.
- Course-only MEd students will be required to complete an additional 0.5 elective FCE in the area of workplace learning and social change.

Workplace Learning and Social Change: 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.

Specialization 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 graduate unit and the collaborative specialization. Normally, the selection of courses to satisfy the collaborative specialization 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 specialization 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 graduate unit and the collaborative specialization. Normally, the selection of courses to satisfy the collaborative specialization 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 specialization core faculty will serve as supervisor or committee member.

Workplace Learning and Social Change: Courses

Not all elective courses are offered each year. Visit the Workplace Learning and Social Change (WLSC) website for [current course offerings](#).

Master's-Level Core Course

WPL 1131H	Introduction to Workplace Learning and Social Change
-----------	--

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 1115H	Learning for the Global Economy
LHA 1119H	Creating a Learning Organization
LHA 1145H	Participatory Research in the Community and the Workplace
LHA 1146H	Women, War, and Learning
LHA 1147H	Women, Migration, and Work
LHA 1148H	Introduction to Workplace, Organizational, and Economic Democracy
LHA 1150H	Critical Perspectives on Organizational Change
LHA 1182H	Nonprofits, Co-operatives, and the Social Economy: An Overview
LHA 1185H	Leadership in Organizations: Changing Perspectives
LHA 1186H	Organizational Change in the Nonprofit and Public Sectors
LHA 1195H	Technology @ Work: The Internet in Workplace Learning and Change
LHA 1849H	Faculty in Colleges and Universities
LHA 5100H*	Special Topics in Adult Education and Community Development (Master's Level)*
LHA 5800H*	Special Topics in Higher Education: Master's Level*
SJE 2942H	Education and Work
SJE 3916H	Women in Leadership Positions: Intersectionalities and Leadership Practices: Sociological Implications in Education
SJE 5000H*	Special Topics in Social Justice Research in Education: Master's Level*
WGS 486 / WGS 1020H*	Gender and Globalization: Transnational Perspectives
WPL 2944H	Sociology of Learning and Social Movements

***Special topics courses: Only the special topics course titles listed can be counted toward the WLSC specialization requirements in the current year. Please confirm current year courses with the WLSC administrator.**

Doctoral-Level Core Course

WPL 3931H	Advanced Studies in Workplace Learning and Social Change
-----------	--

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 1108H	Adult Learning
LHA 1812H	Education and the Professions
LHA 3183H	Introduction to Institutional Ethnography
LHA 5105H	Special Topics in Adult Education and Community Development: Master's Level

LHA 6100H*	Special Topics in Adult Education and Community Development (Doctoral Level)*
WPL 2944H	Sociology of Learning and Social Movements

***Special topics courses: Only the special topics course titles listed can be counted toward the WLSC specialization requirements in the current year. Please confirm current year courses with the WLSC administrator.**



UNIVERSITY OF TORONTO
SCHOOL OF GRADUATE STUDIES