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<td>394</td>
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1. Welcome to UTSC

1.1 Greetings from the Vice-Principal Academic and Dean

Welcome to the University of Toronto Scarborough (UTSC). These are exciting times, especially when it comes to the growth and development of our academic programs. In joining UTSC you’ll take your place among Canada’s future leaders. As part of the University of Toronto (UT), which is widely recognized as Canada’s top university, and also one of the best public research universities in the world, UTSC offers a unique opportunity for students seeking an innovative learning experience in a supportive community environment.

UTSC undergraduate programs are unique at the wider UT for their combination of rigorous academic learning and hands-on experience. Through meaningful volunteer opportunities, stimulating field courses and eye-opening international exchanges, you receive first-hand understanding of what you’re learning in the classroom, and how it applies to the world. For even more experience in your chosen field, you can apply to one of our many innovative Co-op programs, which provide invaluable knowledge from experts working in your program of study while you create your professional network.

Leading researchers at the cutting edge of their fields bring fresh thinking and current knowledge from industry and academia into the classroom. Ambitious students can contribute to research teams in search of the next big breakthrough or experience meaningful and relevant work placements with some of Canada’s top employers.

We invite you to look through this undergraduate academic Calendar with a view towards both choosing programs that will allow you to progress through your degree, as well as the courses that will allow you to progress through your program(s), and gaining a sense of the extraordinary breadth of learning opportunities on offer at UTSC. Remember that we have dedicated staff on hand to help you make the best academic choices – they can be found in the academic units, the Registrar’s Office, and the Academic Advising & Career Centre. Best wishes for a successful academic career,

Professor William Gough
Vice-Principal Academic and Dean (Interim)

1.2 Strategic Directions

UT is committed to being an internationally significant research university, with undergraduate, graduate and professional programs of excellent quality. In addition to celebrating and reaffirming the University’s continued commitment to research, the President has laid out three broad strategies for the University: community building; international outreach; and re-examining and re-inventing undergraduate education. For more information, visit the Office of the President website.

UTSC contributes to achieving the broader UT mission. Our vision articulates our broad and aspirational image of the future, and our campus mission statement defines our core purpose and function. Our piece of the UT mission is to be a world-leading centre of research and intellectual growth anchored in the eastern Greater Toronto Area.

UTSC is focused on five strategic directions:

1. New and emerging areas of scholarship, which focuses on building and deepening our existing strengths.
2. Innovative research, which focuses on our growing research platform, and sharing our achievements and breakthroughs in meaningful and relevant ways with our colleagues across departments and campuses, with members of our community, and with people around the world.
3. Global perspective, which leverages the uniqueness of our local community, and also welcomes scholars and researchers from around the world — spreading an ethos that is founded in the Canadian experience.
4. Experiential learning, which recognizes the power and richness of the campus experience, and encourages fresh thinking in what people learn, and also where and how that learning can be enhanced.
5. Strong foundations, which focuses on supporting all the other strategic directions by creating and enhancing the culture, buildings, infrastructure and tools our students and faculty need.
The academic Calendar is published online, annually, by April 1. It outlines rules, regulations, and curriculum for UTSC only.

Students should be aware that UTSC is a separate faculty of UT, and rules covering students registered at UTSC may differ from rules in the other arts and science divisions, including the Faculty of Arts and Science (FAS), and University of Toronto Mississauga (UTM). UTSC students contemplating transfers to other divisions or faculties are urged to consult Enrolment Services to establish how they will be affected.

The publication of information in this Calendar does not bind UTSC to the provision of any identified courses, programs or facilities. In addition, UTSC reserves the right to change, without notice, any information contained in this Calendar, including any rules or regulations, as well as fees and other charges. Although every effort is made to ensure the Calendar is complete and correct at the time of publication, from time to time changes are necessary. Any amendments to the Calendar are posted on the Changes to Calendar page of the online Calendar. Students are strongly advised to check this page regularly to keep informed of changes.

2.1 Student Responsibility

Students are responsible for making themselves familiar with all of the information in the Calendar, and should also pay close attention to information and instructions posted to the Registrar's Office website. Students who are in doubt as to any rule, deadline or requirement are responsible for seeking guidance from a responsible officer; misunderstanding, or advice received from another student, will not be accepted as cause for special consideration or dispensation. Staff in the academic units, the Registrar's Office and the Academic Advising & Career Centre are best placed to assist students in interpreting UTSC regulations, and explaining their application in particular cases. Where appropriate, they will help those who encounter special difficulties to request special consideration.

2.2 UTSC Registrar's Office

The Registrar’s Office is the place to visit for help with course and program enrolment, attendance letters, general questions about academic regulations, degree requirements, and re-enrolment for students returning after any suspension or an absence from studies lasting 12-months or more. The office also offers online information and services for students who find it difficult to visit in person.

The Registrar’s Office Website:

Here, students will find information concerning courses and programs, important dates and deadlines, fees information, refund schedules, final examination schedules, financial aid information, student card (TCard) production, rules and regulations, and office location and hours of operation.

eService:

eService is UTSC’s portal to online services offered by the Registrar’s Office. It allows UTSC students to request and, where necessary, pay for services without having to visit the office in person. Students may request services such as: clerical check of a final grade; ordering a final exam; requesting a change in degree type; reporting a final exam problem; withdrawing late from a course; applying for a bursary; or submitting a petition.

AskRO:

This webform allows students to submit a question online, and receive a response within 1-2 business days.

ACORN:

University of Toronto student records are maintained by a student-friendly web-based system called ACORN, which replaces the Repository of Student Information (ROSI) effective Spring 2016. These records are shared with Degree Explorer, a web-based academic audit and advising system.

Students can use ACORN to access a variety of online enrolment services, such as:

• Course and program enrolment;
• Viewing grades, and academic status;
• Requesting transcripts;
• Viewing the financial account;
• Updating personal information;
• Listing ACORN transactions and viewing their Personal and Final Examination Timetable; and
• Requesting graduation

2.3 Notice of Collection of Personal Information

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

In addition, the Ministry of Training, Colleges and Universities has asked that we notify you 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 Colleges and Universities Act, R.S.O., 1990, 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 Ministry of Training, Colleges and Universities uses this
personal information is available on the Ministry’s website.

At all times your personal information will be protected in accordance with the Freedom of Information and Protection of Privacy Act. If you have questions, please refer to http://www.fippa.utoronto.ca or contact the University Freedom of Information and Protection of Privacy Coordinator at 416-946-7303, McMurrich Building, Room 104, 12 Queen's Park Crescent West, Toronto, ON, M5S 1A8. An expanded version of this Notice can be found at http://www.fippa.utoronto.ca.

2.4 Official University Correspondence With Students

University correspondence with students is governed by the Policy on Official Correspondence with Students.

The postal mail system and email are the most common means by which the University corresponds with students. Email is the primary method of communicating with students regarding registration, student accounts, and other important or time-critical business. All U of T students are provided with an official University UTmail+ email address (@mail.utoronto.ca). Setting up this official account is mandatory for all University of Toronto students: instructions are available at http://iits.utsc.utoronto.ca. Students are expected to monitor and retrieve their official correspondence on a frequent and consistent basis.

In addition, students are responsible for maintaining current and valid contact information in ACORN. Neglecting to report changes in contact information in a timely manner will not be considered an acceptable reason for failing to act on official correspondence.
### 3.1 Senior Academic Administration

**Office of the Dean and Vice-Principal, Academic:**
- Professor William Gough: Vice-Principal Academic and Dean (Interim)
- Professor Mark Schmuckler: Vice-Dean Undergraduate
- Professor Mary Silcox: Vice-Dean Graduate (effective July 1, 2016)
- Professor Clare Hasenkampf: Associate Dean, Teaching and Learning
- Curtis Cole: Registrar, and Assistant Dean, Enrolment Management
- Lesley Lewis: Assistant Dean, Academic

**Other:**
- Professor Bruce Kidd: Vice-President and Principal
- Professor Heinz-Bernhard Kraatz: Vice-Principal, Research
- Desmond Pouyat: Dean of Student Affairs

### 3.2 Academic Units and Programs

**Notes:**
1. Listed programs are currently being offered.
2. Where [Co-op] appears, a Co-operative version of the program is also offered.
3. UTSC also offers undergraduate/graduate Combined Degree Programs. For more information see the Combined Degree Programs section of this Calendar.

**New Programs/Offerings in 2016-17:**
- Minor in Curatorial Studies (Arts) –see Department of Arts, Culture and Media
- Major in Plant Biology (BSc) –see Department of Biological Sciences
- Stream in Entrepreneurship in Specialist/ Specialist Co-op in Computer Science –see Department of Computer and Mathematical Sciences
- Minor in International Development Studies (Arts) –see Centre for Critical Development Studies
- Minor in Food Studies (Arts) –see Department of Historical and Cultural Studies
- Specialist in City Studies (BA) –see Department of Human Geography
- Specialist in Human Geography (BA) –see Department of Human Geography

**Department of Anthropology:**
Chair: Professor M. Lambek

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Evolutionary Anthropology, Specialist, BSc</td>
<td>Anthropology</td>
</tr>
<tr>
<td>- Socio-Cultural Anthropology, Specialist BA</td>
<td>*Course code prefix: ANT</td>
</tr>
<tr>
<td>- Evolutionary Anthropology, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Socio-Cultural Anthropology, Major, BA</td>
<td></td>
</tr>
<tr>
<td>- Anthropology, Minor (Arts)</td>
<td></td>
</tr>
<tr>
<td>- Health Studies, Population Health, Major, BSc [Co-op]</td>
<td>Health Studies</td>
</tr>
<tr>
<td>- Health Studies, Health Policy, Major, BA [Co-op]</td>
<td>*Course code prefix: HLT</td>
</tr>
</tbody>
</table>

**Department of Arts, Culture and Media:**
Acting Chair: Professor L. Tucker (until June 30, 2016)
Chair: Professor W. Bowen

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- Art History and Visual Culture, Major, BA</td>
<td>Art History and Visual Culture</td>
</tr>
<tr>
<td>- Art History and Visual Culture, Minor (Arts)</td>
<td>*Course code prefix: VPH</td>
</tr>
<tr>
<td>- Arts Management, Specialist, BA</td>
<td>Arts Management</td>
</tr>
<tr>
<td>-- Standard stream</td>
<td>*Course code prefix: VPA</td>
</tr>
<tr>
<td>-- Field Placement stream</td>
<td></td>
</tr>
<tr>
<td>- Curatorial Studies, Minor (Arts)</td>
<td>Curatorial Studies</td>
</tr>
<tr>
<td></td>
<td>*Course code prefix: CRT</td>
</tr>
<tr>
<td>- Journalism (Joint program with Centennial College), Specialist, BA</td>
<td>Journalism</td>
</tr>
<tr>
<td></td>
<td>*Course code prefix: JOU</td>
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</tbody>
</table>
### 3. UTSC Academics At-A-Glance

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<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- Media Studies, Major, BA</td>
<td>Media Studies</td>
</tr>
<tr>
<td>- Media Studies, Minor (Arts)</td>
<td>*Course code prefix: MDS</td>
</tr>
<tr>
<td>- Music and Culture, Major, BA</td>
<td>Music and Culture</td>
</tr>
<tr>
<td>- Music and Culture, Minor (Arts)</td>
<td>*Course code prefix: VPM</td>
</tr>
<tr>
<td>- New Media Studies (Joint program with Centennial College), Major, BA</td>
<td>New Media Studies</td>
</tr>
<tr>
<td>- Studio, Specialist, BA</td>
<td>*Course code prefix: NME</td>
</tr>
<tr>
<td>- Studio, Major, BA</td>
<td>Studio</td>
</tr>
<tr>
<td>- Studio, Minor (Arts)</td>
<td>*Course code prefix: VPS</td>
</tr>
<tr>
<td>- Theatre and Performance Studies, Major, BA</td>
<td>Theatre and Performance Studies</td>
</tr>
<tr>
<td>- Theatre and Performance Studies, Minor (Arts)</td>
<td>*Course code prefix: VPD</td>
</tr>
</tbody>
</table>

The Department of Arts, Culture and Media also offers courses in the following discipline areas:
*Arts, Culture and Media - Course code prefix: ACM

**Department of Biological Sciences:**
Chair: Professor A. Mason

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<th>Programs</th>
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</thead>
<tbody>
<tr>
<td>- Conservation and Biodiversity, Specialist, BSc</td>
<td>Biology</td>
</tr>
<tr>
<td>- Human Biology, Specialist, BSc</td>
<td>*Course code prefix: BIO</td>
</tr>
<tr>
<td>- Integrative Biology, Specialist, BSc</td>
<td></td>
</tr>
<tr>
<td>- Molecular Biology and Biotechnology, Specialist, BSc [Co-op]</td>
<td></td>
</tr>
<tr>
<td>- Biology, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Conservation and Biodiversity, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Human Biology, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Molecular Biology, Immunology and Disease, Major, BSc</td>
<td></td>
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<tr>
<td>- Plant Biology, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Biology, Minor (Science)</td>
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</tr>
<tr>
<td>- Paramedicine (Joint program with Centennial College), Specialist, BSc</td>
<td>Paramedicine</td>
</tr>
<tr>
<td>- Conservation and Biodiversity, Specialist, BSc</td>
<td>*Course code prefix: PMD</td>
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The Department of Biological Sciences also offers courses in the following discipline areas:
*Applied Microbiology - Course code prefix: IMC

**Department of Computer and Mathematical Sciences:**
Chair: Professor D. Fleet

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<tbody>
<tr>
<td>- Computer Science, Specialist, BSc</td>
<td>Computer Science</td>
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<tr>
<td>-- Comprehensive stream [Co-op]</td>
<td>*Course code prefix: CSC</td>
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<td>-- Software Engineering stream [Co-op]</td>
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<td>-- Information Systems stream [Co-op]</td>
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<td>-- Health Informatics stream [Co-op]</td>
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<tr>
<td>-- Entrepreneurship stream [Co-op]</td>
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<tr>
<td>- Computer Science, Major, BSc [Co-op]</td>
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<tr>
<td>- Computer Science, Minor (Science)</td>
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<tr>
<td>- Mathematics, Specialist, BSc</td>
<td>Mathematics</td>
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<tr>
<td>-- Comprehensive stream [Co-op]</td>
<td>*Course code prefix: MAT</td>
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<tr>
<td>-- Statistics stream [Co-op]</td>
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<tr>
<td>-- Teaching stream [Co-op]</td>
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<tr>
<td>- Mathematics, Major, BSc [Co-op]</td>
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</table>
### Centre for Critical Development Studies:
Acting Director: Professor L. Chan (until June 30, 2016)
Director: Professor P. Kingston

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- International Development Studies, Specialist, BSc [Co-op]</td>
<td>International Development Studies</td>
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<tr>
<td>- International Development Studies, Specialist, BA [Co-op]</td>
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<tr>
<td>- International Development Studies, Major, BA</td>
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<tr>
<td>- International Development Studies, Minor (Arts)</td>
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### Department of English:
Chair: Professor C. Bolus-Reichert

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<td>- English, Specialist, BA [Co-op]</td>
<td>English</td>
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<td>- English, Major, BA [Co-op]</td>
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<tr>
<td>- English Literature, Minor (Arts)</td>
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<tr>
<td>- Creative Writing, Minor (Arts)</td>
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<tr>
<td>- Literature and Film Studies, Minor (Arts)</td>
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### Centre for French and Linguistics:
Director: Professor K. McCrindle

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<th>Programs</th>
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<tr>
<td>- French, Specialist, BA [Co-op]</td>
<td>French</td>
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<tr>
<td>- French, Major, BA [Co-op]</td>
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<tr>
<td>- French, Minor (Arts)</td>
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<tr>
<td>- English to Chinese Translation, Minor (Arts)</td>
<td>Languages (including French, Chinese, Hindi, Japanese, Mandarin, and Tamil)</td>
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<tr>
<td>- Linguistics, Specialist, BA [Co-op]</td>
<td>Linguistics</td>
</tr>
<tr>
<td>- Psycholinguistics, Specialist, BA [Co-op]</td>
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<tr>
<td>- Linguistics, Major, BA [Co-op]</td>
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<tr>
<td>- Linguistics, Minor (Arts)</td>
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### Department of Historical and Cultural Studies:
Chair: Professor L. Chen

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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<tbody>
<tr>
<td>- African Studies, Minor (Arts)</td>
<td>African Studies</td>
</tr>
<tr>
<td>- Classical Studies, Minor (Arts)</td>
<td>Classical Studies</td>
</tr>
<tr>
<td>- Food Studies, Minor (Arts)</td>
<td>Food Studies</td>
</tr>
<tr>
<td>- Global Asia Studies, Specialist, BA</td>
<td>Global Asia Studies</td>
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<tr>
<td>- Global Asia Studies, Major, BA</td>
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<tr>
<td>- Global Asia Studies, Minor (Arts)</td>
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</table>
### 3. UTSC Academics At-A-Glance

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- History, Specialist, BA [+Co-op]</td>
<td>History</td>
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<tr>
<td>- History, Major, BA [+Co-op]</td>
<td>*Course code prefix: HIS</td>
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<tr>
<td>- History, Minor (Arts)</td>
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<tr>
<td>- Women’s and Gender Studies, Major, BA [+Co-op]</td>
<td>Women's and Gender Studies</td>
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<tr>
<td>- Women’s and Gender Studies, Minor (Arts)</td>
<td>*Course code prefix: WST</td>
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</table>

The Department of Historical and Cultural Studies also offers courses in the following discipline areas:
*Historical and Cultural Studies - Course code prefix: HCS
*Religion - Course code prefix: RLG

**Department of Human Geography:**
Chair: Professor A. Sorensen

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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<tbody>
<tr>
<td>- City Studies, Specialist, BA</td>
<td>City Studies</td>
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<tr>
<td>- City Studies, Major, BA [+Co-op]</td>
<td>*Course code prefix: CIT</td>
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<tr>
<td>- City Studies, Minor (Arts)</td>
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<tr>
<td>- Human Geography, Specialist, BA</td>
<td>Geography</td>
</tr>
<tr>
<td>- Human Geography, Major, BA</td>
<td>*Course code prefix: GGR</td>
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<tr>
<td>- Physical and Human Geography, Major, BA</td>
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<tr>
<td>- Geographic Information Science (GIS), Minor (Arts)</td>
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<tr>
<td>- Human Geography, Minor (Arts)</td>
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</tr>
<tr>
<td>- Urban Public Policy and Governance, Minor (Arts)</td>
<td>Public Policy</td>
</tr>
</tbody>
</table>

The Department of Human Geography also offers courses in the following discipline areas:
*Diaspora and Transnational Studies - Course code prefix: DTS

**Department of Management:**
Chair: Professor D. Zweig

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- Economics for Management Studies, Major, BA</td>
<td>Economics for Management Studies</td>
</tr>
<tr>
<td>- Economics for Management Studies, Minor (Arts)</td>
<td>*Course code prefix: MGE</td>
</tr>
<tr>
<td>- Economics for Management Studies, Specialist, BBA [+Co-op]</td>
<td>Management</td>
</tr>
<tr>
<td>- Management, Specialist, BBA [+Co-op]</td>
<td>*Course code prefixes: MGA, MGF, MGH, MGI, MGM, MGO, MGS, and MGT</td>
</tr>
<tr>
<td>- Management and Accounting, Specialist, BBA [+Co-op]</td>
<td></td>
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<tr>
<td>- Management and Finance, Specialist, BBA [+Co-op]</td>
<td></td>
</tr>
<tr>
<td>- Management and Human Resources, Specialist, BBA [+Co-op]</td>
<td></td>
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<tr>
<td>- Management and Information Technology, Specialist, BBA [+Co-op]</td>
<td></td>
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<tr>
<td>- Management and Marketing, Specialist, BBA [+Co-op]</td>
<td></td>
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<tr>
<td>- Strategic Management, Specialist, BBA</td>
<td></td>
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<tr>
<td>-- Management Strategy stream [+Co-op]</td>
<td></td>
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<tr>
<td>-- Entrepreneurship stream [+Co-op]</td>
<td></td>
</tr>
<tr>
<td>- Management and International Business, Specialist Co-operative, BBA</td>
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</tbody>
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**Department of Philosophy:**
Chair: Professor P. Kremer

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Philosophy, Specialist, BA [+Co-op]</td>
<td>Philosophy</td>
</tr>
<tr>
<td>- Philosophy, Major, BA [+Co-op]</td>
<td>*Course code prefix: PHL</td>
</tr>
<tr>
<td>- Philosophy, Minor (Arts)</td>
<td></td>
</tr>
</tbody>
</table>

**Department of Physical and Environmental Sciences:**
Interim Chair: Professor G. Arhonditsis

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>- History, Specialist, BA [+Co-op]</td>
<td>History</td>
</tr>
<tr>
<td>- History, Major, BA [+Co-op]</td>
<td>*Course code prefix: HIS</td>
</tr>
<tr>
<td>- History, Minor (Arts)</td>
<td></td>
</tr>
<tr>
<td>- Women’s and Gender Studies, Major, BA [+Co-op]</td>
<td>Women's and Gender Studies</td>
</tr>
<tr>
<td>- Women’s and Gender Studies, Minor (Arts)</td>
<td>*Course code prefix: WST</td>
</tr>
</tbody>
</table>

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The Department of Physical and Environmental Sciences also offers courses in the following discipline areas:

*Environmental Science and Technology - Course code prefix: STE

Department of Political Science:
Chair: Professor G. Skogstad

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</thead>
<tbody>
<tr>
<td>- Political Science, Specialist, BA</td>
<td>Political Science</td>
</tr>
<tr>
<td>- Political Science, Major, BA</td>
<td>*Course code prefix: POL</td>
</tr>
<tr>
<td>- Political Science, Minor (Arts)</td>
<td></td>
</tr>
<tr>
<td>- Public Law, Minor (Arts)</td>
<td></td>
</tr>
<tr>
<td>- Public Policy, Major, BA [+Co-op]</td>
<td>Public Policy</td>
</tr>
<tr>
<td></td>
<td>*Course code prefix: PPG</td>
</tr>
</tbody>
</table>

The Department of Political Science also offers courses in the following discipline areas:

*International Studies - Course code prefix: IST

Department of Psychology:
Chair: Professor G. Cree

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>- Neuroscience, Specialist, BSc [+Co-op]</td>
<td>Neuroscience</td>
</tr>
<tr>
<td>- Neuroscience, Major, BSc</td>
<td>*Course code prefix: NRO</td>
</tr>
<tr>
<td>**Shared with Dept. of Biological Sciences</td>
<td></td>
</tr>
<tr>
<td>- Mental Health Studies, Specialist, BSc [+Co-op]</td>
<td>Psychology</td>
</tr>
<tr>
<td>- Psychology, Specialist, BSc [+Co-op]</td>
<td></td>
</tr>
<tr>
<td>- Mental Health Studies, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Psychology, Major, BSc</td>
<td></td>
</tr>
<tr>
<td>- Psychology, Minor (Science)</td>
<td></td>
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</tbody>
</table>

The Department of Psychology also offers courses in the following discipline areas:

*Cognitive Science - Course code prefix: COG

Department of Sociology:
Chair: Professor P. Landolt

<table>
<thead>
<tr>
<th>Programs</th>
<th>Calendar Section</th>
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</table>
3. UTSC Academics At-A-Glance

The Department of Sociology administers courses in the following discipline areas:
*Concurrent Teacher Education - Course code prefix: CTE

Centre for Teaching and Learning:
Director: Professor C. Hasenkampf

The Centre for Teaching and Learning offers courses in the following discipline areas:
*Teaching and Learning - Course code prefix: CTL

3.3 Programs With Suspended Enrolments

Enrolment into the following programs has been suspended indefinitely. Students already enrolled in these programs must refer to the Calendar active at the time they first chose the program as a Subject POSt.

Suspended effective the 2010-11 academic year:
- Major in International Development Studies (BSc)
- Major in International Studies (BA)

Suspended effective the 2013-14 academic year:
- Specialist (Co-operative) in Arts Management (BA)
- Specialist (Joint) in Applied Microbiology (BSc)
- Specialist (Joint) in Environmental Science and Technology (BSc)
- Minor in Health Studies (BA)
- Minor in Religion (BA)

Suspended effective the 2014-15 academic year:
- Concurrent Teacher Education Program (CTEP)
- Major in Diaspora and Transnational Studies (BA)
- Minor in Diaspora and Transnational Studies (BA)

3.4 Academic Awards and Scholarships

UTSC seeks to recognize the excellent academic achievement of students registered in undergraduate degree programs. There are two broad categories of awards:

1. Admission Awards:
Are available to new students entering UTSC directly from secondary school. There are two types of awards: automatic consideration; or, application or nomination based. UTSC allocates Admission Awards to students entering first year directly from secondary school. A limited number of awards are available to international students. In considering students for scholarships, the University reserves the right to give preference to students whose marks are the result of a single attempt at each course.

2. In-course Awards:
Are available to students continuing their studies at UTSC. There are two types of awards: automatic consideration; or, application or nomination based. In-course Awards are given to students who have completed their First, Second or Third year of study towards an Honours Bachelor's degree. For award purposes, a year of study is defined as the completion of 5.0 credits. In order to give more students an opportunity to be recognized for excellent academic achievement UTSC Awards policy permits a student to hold only one major award.

A general condition for holding an Admission or In-course award is that the student must register at UTSC in the following academic year with degree status. Students who have been awarded a scholarship, which is based on enrolment in a particular program of study, must continue in that program to receive the award. UTSC reserves the right to not award a scholarship, if, in a particular year, the academic achievement of the candidate is not of high standard. To be considered for any award, a student must be enrolled in or graduating from an Honours Bachelor program.

University of Toronto Scarborough Dean’s List:
The Dean’s List is published annually in the Fall. All students who have achieved a cumulative grade point average (CGPA) of 3.5 or better in their most recent year of study will be considered as long as they have completed a minimum of 1.5 credits during the previous Fall, Winter, and Summer sessions.

Graduation Awards:
Graduation awards are given at the time of graduation. They include medals and prizes awarded for outstanding achievement during the final year of undergraduate study.

*Course code prefix: SOC

| Sociology, Specialist, BA |
| Sociology, Major, BA |
| Sociology, Minor (Arts) |
| Culture, Creativity, and Cities, Minor (Arts) |
| Migration and Ethnic Diversity, Minor (Arts) |
| Sociology |

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Students who graduate at the Fall Convocation are considered for graduation awards in the following year together with students who are graduating at the Spring Convocation.

**Recognition of Exceptional Academic Achievement:**
Graduating students who have completed at least 10.0 credits while registered at UTSC will be considered for the following recognition:

1. **High Distinction:**
   Students who graduate with a **CGPA of 3.50** or better are recognized as graduates "With High Distinction." This achievement is noted on the diploma and transcript.

2. **Distinction:**
   Students who graduate with a **CGPA between 3.20 and 3.49** are recognized as graduates "With Distinction." This achievement is noted on the diploma and transcript.

Other students with a CGPA of 3.20 or better will be considered on an individual basis.

For complete information on awards and scholarships, please visit the Awards and Scholarships webpage on the Registrar's Office website.
4. Academic Integrity

4.1 University Policy

The University of Toronto places a strong emphasis on integrity in teaching and research. The University’s policies and procedures that deal with cases of cheating, plagiarism and other forms of academic misconduct, are designed to protect the integrity of the institution and to maintain a community where competition is fair. Allegations of an academic offence are dealt with formally and seriously, and penalties can be severe if it is determined a student or faculty member has committed an academic offence.

All of the policies and procedures surrounding academic misconduct are dealt with in the Code of Behaviour on Academic Matters (non academic behaviour is governed by the Code of Student Conduct). The preamble of the Code of Behaviour states:

The concern of the Code of Behaviour on Academic Matters is with the responsibilities of all parties to the integrity of the teaching and learning relationship. Honesty and fairness must inform this relationship, whose basis remains one of mutual respect for the aims of education and for those ethical principles which must characterize the pursuit and transmission of knowledge in the University.

What distinguishes the University from other centres of research is the central place which the relationship between teaching and learning holds. It is by virtue of this relationship that the University fulfills an essential part of its traditional mandate from society, and, indeed, from history: to be an expression of, and by so doing to encourage, a habit of mind which is discriminating at the same time as it remains curious, which is at once equitable and audacious, valuing openness, honesty and courtesy before any private interests.

This mandate is more than a mere pious hope. It represents a condition necessary for free enquiry, which is the University’s life blood. Its fulfillment depends upon the well being of that relationship whose parties define one another’s roles as teacher and student, based upon differences in expertise, knowledge and experience, though bonded by respect, by a common passion for truth and by mutual responsibility to those principles and ideals that continue to characterize the University.

This Code is concerned, then, with the responsibilities of faculty members and students, not as they belong to administrative or professional or social groups, but as they co-operate in all phases of the teaching and learning relationship.

Such co-operation is threatened when teacher or student forsakes respect for the other—and for others involved in learning—in favour of self-interest, when truth becomes a hostage of expediency. On behalf of teacher and student and in fulfillment of its own principles and ideals, the University has a responsibility to ensure that academic achievement is not obscured or undermined by cheating or misrepresentation, that the evaluative process meets the highest standards of fairness and honesty, and that malevolent or even mischievous disruption is not allowed to threaten the educational process.

These are areas in which teacher and student necessarily share a common interest as well as common responsibilities.

4.2 Academic Offences

Academic offences are defined in Section B.i.1 of the Code, and include:

- Forgery—commonly forged documents include medical certificates, transcripts and diplomas.
- Possessing or using unauthorized aids or using unauthorized assistance—an unauthorized aid is anything which is brought into a test or exam which is not specifically allowed, including notes, calculators, and cell phones; unauthorized assistance refers to assistance from another person, unless permission has been given to work in pairs or groups.
- Personation—a student who writes a test or exam for another student, and a student who arranges for another student to write his/her test or exam, are committing personation.
- Plagiarism—presenting material in essays, assignments, and exams as if it is one’s own is plagiarism.
- Submitting work for which credit has already been given, or is being sought, without the permission of the instructor.
- Concocting references or data—making up references or data is referred to as concocting; common examples include citing references which are false, or using data altered to reach a desired conclusion.

UTSC students and faculty are responsible for ensuring the integrity of their work, and for understanding what constitutes an academic offence. Students can find help in avoiding academic offences in the UTSC Library, the Writing Centre, the English Language Development Centre, and the Academic Advising & Career Centre. International students will also find help in the International Student Centre.

All members of the University are expected to respect the rules associated with academic integrity and the values they protect. For more information, visit the Office of Academic Integrity at UTSC.
5.1 University of Toronto Policies

UT has numerous policies that are approved by its Governing Council, which apply to all students. It is in every student’s best interest to be familiar with these policies as the University will assume that s/he has done so. All of the University’s policies can be accessed through the Governing Council website, but those of particular importance to students include:

- Guidelines Concerning Access to Official Student Academic Records
- Code of Behaviour on Academic Matters
- Code of Student Conduct
- University Assessment and Grading Practices Policy
- Policy on Official Correspondence with Students

More information about academic policies can be found on the Office of the Vice-President and Provost website.

As members of the wider UT community, UTSC students assume certain responsibilities, and are guaranteed certain rights and freedoms. The academic rules, regulations and policies of the wider University, as well as those particular to UTSC, are identified in this Calendar. UTSC students are subject to all of these rules, regulations and policies, which may be amended from time to time.

5.2 Student Identification

Student Numbers:
Every student at the wider University is assigned a unique identification number, called a student number. This number is confidential, and UT strictly controls access to it. Students are cautioned that the University assumes and expects each of them to protect the confidentiality of their student number.

UTORid:
All students are issued a UTORid as part of the registration process. Your UTORid (and password) is your user identification for a number of different services including UTmail+, the Wireless Network, the UT Library system, and the UT Portal.

Student Cards (TCards):
All students are required to have a student card, generally called a TCard, in order to write tests and exams, request transactions at the Registrar’s Office, obtain a UTORid account, and use the Library, Computer Centre and Athletic facilities. TCards are issued through the Registrar’s Office. For more information visit the Registrar’s Office website.

5.3 General Academic Regulations

This section of the Calendar describes general academic requirements students must meet, and procedures they must follow. Additional, and more specific, academic requirements and procedures are described in relevant sections of the Calendar; for example, requirements and regulations related to degrees are described in the Understanding Degrees section of the Calendar.

Class Attendance:
Class attendance is an important aspect of university studies. Although class attendance is not mandatory, students who “skip” class place themselves at a distinct disadvantage, and will not receive any special consideration on the grounds of non-attendance. Students who are unable to attend a class during the first two weeks of the session are strongly advised to wait until a future session before enrolling. New students who decide to wait until a future session should contact the Admissions and Student Recruitment Office to arrange a formal deferment of their Offer of Admission.

Copyright in Instructional Settings:
Students who want to record (whether audio, video or tape), photograph, or otherwise reproduce lecture presentations, course notes or other materials provided by instructors, must obtain the instructor’s written consent beforehand. Otherwise all such reproduction is viewed as 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. Where permission has been granted by the instructor, the reproduced materials are for the student’s individual and private use only, and cannot be used for further reproduction, publication, online posting, or sale.

Students in Debt to the University:
If, at the end of the academic session, all debt to the University has not been paid, UTSC imposes the following academic sanctions until the debt is cleared:

- Transcripts are not issued;
- Diplomas are not released, nor is oral or written confirmation of degree and program completion provided. However, indebted graduands will be allowed to participate in the graduation ceremony and have their names appear in the Convocation program;
- Further studies are denied;
- Written certification of degree and program status is not provided;
- Confirmation of enrolment status is not provided; and/or
- Registration is refused to re-enrolling students (i.e. returning after any suspension or after an absence of twelve months or more).

The following debts are taken into consideration when applying sanctions:

- Tuition fees;
- Residence fees and other residence charges;
5. Academic Regulations

- Library fines;
- Loans made by colleges, faculties or the University;
- Health service accounts;
- Unreturned or damaged instruments, materials and equipment; and/or
- Fines levied under the Code of Student Conduct.

5.4 Academic Regulations Related to Final Examinations*

*Regulations for mid-term exams and tests are determined by the individual academic units and may differ from those for final examinations. Students are advised to consult their course syllabus, instructor, or the academic unit offering the course for regulations related to mid-terms.

Final examinations are held at the end of each session (Fall, Winter and Summer). Students who make personal commitments during the examination period do so at their own risk, and are warned they will not receive any special consideration, nor will special arrangements be made to accommodate them.

As soon as they are finalized, examination schedules are posted on the Registrar’s Office website under the Examinations tab. The date of posting is normally no later than:
- Mid July for the Summer examination period;
- Mid November for the Fall examination period; and
- Mid March for the Winter examination period.

Information regarding dates and times of final examinations will not be given by telephone.

Students are responsible for reading the examination schedule carefully and appearing at their exams on the date, and at the time, specified. Examinations can be scheduled at any time of day during the examination period: students taking daytime courses may be required to write evening examinations, and students taking evening courses may be required to write daytime examinations. In addition, final examinations (including deferred examinations) may be held on any day of the week, including weekend days.

Examination room procedures for students can be found on the Registrar’s Office website under the Examinations tab.

Final Examination Timetable Conflicts:
1. Students scheduled to write two examinations at the same time should report their conflicts through eService: arrangements will normally be made for students to write both examinations on the same day, with a supervised break:
   - Where the conflict involves a course offered by FAS or UTM, arrangements will normally be made for both examinations to be written at UTSC.
   - Requests for such arrangements must be made no later than two full weeks before the first day of examinations in each session: requests will not be considered after that time.

2. Students may request special arrangements if they are scheduled to write examinations in three consecutive time slots as follows:
   - 9:00am, 2:00pm, 7:00pm (in the same day)
   - 2:00pm, 7:00pm (in the same day), 9:00am (the following day)
   - 7:00pm, followed by 9:00am, 2:00pm (the following day)

No other exam sequence is considered to be three consecutive time slots. Requests for special arrangements must be made through eService no later than two full weeks before the first day of examinations in each session: requests will not be considered after that time. This type of accommodation does not apply to students writing deferred examinations.

Accommodation for Religious Observances:
It is the policy of the University to arrange reasonable accommodation of the needs of students who observe religious holy days other than those already accommodated by ordinary scheduling and statutory holidays. If the date of a final examination falls on a holy day observed by a student, the student should submit, through eService, a request for accommodation no later than two full weeks before the commencement of examinations. This will normally be granted.

Procedure for Rescheduling Final Examinations Cancelled Due to Winter Weather:
If the campus is closed because of inclement weather for a day or part of a day during the Fall examination period, all missed examinations will be rescheduled on the first Saturday following the start of classes of the Winter session. For the time and room location check the UTSC homepage.

Student Identification at Final Examinations:
Students are required to identify themselves at examinations by means of their TCard. It is in every student’s best interest to ensure they have obtained a TCard well in advance of the day of their first examination since students who do not have this card risk not being permitted to write their exam.

Use of Calculators in Tests and Final Examinations:
Instructors will let their students know whether the use of calculators is permissible during tests and examinations and, if so, which models are approved. The use of an unauthorized calculator will be treated as an academic offence, and may result in serious penalties.
5. Academic Regulations

Materials and Personal Belongings in the Exam Room:

- It is an academic offence for students to bring unauthorized materials and/or electronic devices into an exam whether they are used or not. Students who bring any unauthorized materials or electronic devices into an examination room, or assist, or obtain assistance from other students or from an unauthorized source, are liable to penalties under the Code of Behaviour on Academic Matters, including the loss of academic credit for the course, suspension, or expulsion from the University.
- Bags and books are to be deposited in areas designated by the instructor/invigilator and are not to be taken to the examination table. Students must place their valuables, including all cell phones, tablets and laptop computers, in the re-sealable plastic bag provided for this purpose, and place the bag, closed, on the floor underneath their chair. Use of the plastic bags is mandatory since possession of an unauthorized electronic device is an academic offence; students who are not automatically provided with a plastic bag, should request one. At the conclusion of the exam, students should return the re-sealable bag so that it can be reused.
- No materials or electronic devices may be used at an examination except those authorized by the instructor. If the instructor has permitted the use of any aids, this will be explicitly stated on the front page of the exam.
- Paper coffee cups, plastic water bottles with labels, pencil cases, and cell phones are not permitted on exam room desks. Students wearing peaked caps will be asked to remove them prior to sitting down to write their exams.

Note: The University is not responsible for personal property left in examination rooms.

Requesting Copies of Final Examinations:

Within 90 days of the relevant examination period students may request a copy of their final exam. Students must submit this request through eService. Where copying of the final exam is permitted, students will receive a photocopy of their exam. Where photocopying of the final exam is not permitted, students will be given an opportunity to view their exam under the supervision of a staff member. A non-refundable fee is charged. After 90 days, examinations are no longer available.

5.5 Exceptions to Academic Regulations: Special Consideration, Petitions and Appeals

From time to time students may need to ask for special consideration in their academic work or for exceptions to be made to academic regulations. Such requests normally arise as a result of their being affected by something outside their control, such as illness, accident or the death of a family member. Very occasionally students may find themselves in a situation not foreseen by the regulations, or feel they have been unreasonably affected by a deviation from University Policy or approved practice. If you find yourself in such a situation, it is important you follow identified procedures and meet all published deadlines.

Students should seek special consideration only when there are circumstances which are truly beyond their control, which they could not reasonably have anticipated or overcome, and which have seriously affected their studies.

Students who take courses at another campus, should refer to the FAS and/or UTM Calendars for regulations regarding their courses. Students are responsible for observing the regulations governing any courses they take on other campuses. However, all UTSC students must adhere to UTSC deadlines for petitions and appeals, irrespective of the campus on which the course is taken.

For complete information on special consideration, including petitions and appeals, visit the Registrar’s Office website under the Petitions tab.

Exceptions Regarding Submission of Term Work:

Students should speak with their instructor as soon as possible to request special consideration, if:
- They are unable to write a term test;
- Their performance on a test is adversely affected by illness or other extenuating circumstances; or
- They cannot submit term work by the instructor’s deadlines.

In these instances, special consideration will be granted at the instructor’s discretion. If students wish to appeal the instructor’s decision they must speak with, or write to, the Chair or Director of the academic unit offering the course.

If it is close to the end of the session and a student needs an extension of time to complete term work or to write a term test, the course instructor, jointly with the Chair/Director of the academic unit, has the authority to grant an extension for up to a week after the last date to submit term work. If students need more than a week’s extension for term work, they must submit a formal petition.

Deferring Final examinations:

1. Students who miss a final examination can petition through eService for a deferred exam, within 72 hours of the missed examination. Complete information regarding how to submit a petition is available under the Petitions tab on the Registrar’s Office website. Students seeking to submit a petition to defer an exam should bear the following in mind:
   - Petitions will be considered only for cases of illness or extreme emergency at the time of an examination. Petitions based on vacation, employment, or personal plans will not be considered.
   - Petitions based on medical grounds must be supported by an original Verification of Student Illness or Injury form stating both that the student was examined and diagnosed at the time of illness and was examined on the day of the exam or the next day. A statement from the physician that merely confirms a report of illness and/or disability made by the student will not be accepted.
   - Petitions based on other than medical grounds, must provide supporting documentation.
   - All supporting documentation must be submitted within 10 business days, and must be in original form; photocopies or faxes will not be accepted.
5. Academic Regulations

- Late petitions will not be accepted.

2. Students who choose to write an examination may not petition to rewrite it, except in circumstances such as a significant illness that suddenly manifests itself during an examination. In this instance, the claim of illness requires both corroboration from the examination invigilator and documentation from a health care professional.

3. Deferred examinations for all UTSC courses are held as follows:
   - Exams deferred from the Summer session are held in the immediately following Fall session final examination period, or the study period that precedes it;
   - Exams deferred from the Fall session are held in the immediately following Winter session final examination period, or the study period that precedes it; and
   - Exams deferred from the Winter session are held in the immediately following Summer session final examination period, or the study period that precedes it.

4. Students must pay a fee by the given deadline to write any UTSC deferred examination. The payment deadline and instructions are indicated in the petition decision message in eService. Failure to pay the fee will result in loss of privilege to sit the examination.

5. Students writing deferred examinations may not exceed a credit load of 2.5 credits in the session leading up to the deferred examinations.

6. Students are given only one opportunity to sit a deferred exam and are expected to be available for the entire deferred examination period.

7. Students who miss a deferred examination will receive a mark of zero for the examination. Only under exceptional circumstances (e.g., hospitalization or severe personal emergency), which are supported by strong and compelling evidence, will a petition for a second deferral of the examination be considered.

8. Under truly exceptional circumstances, students who are unavoidably outside the Toronto area during the deferred examination period may petition for permission to write their exam at an outside centre. The petition must detail the reasons for the request, and must be submitted at least three weeks prior to the beginning of the deferred examination period. Late requests cannot be accommodated, and fees in addition to the fee to write a deferred examination will apply.

Notes:
- Deferring a final examination may affect students' ability to gain access to courses and/or limited enrolment programs since they may not enrol in any course listed as a prerequisite in the course for which they have deferred the examination.
- Deferred examinations in other arts and science divisions of the University may be scheduled at times other than those for UTSC.

Disagreements Regarding Marks and Grades:

1. Grades in Term Work
   - Students who think a mark on a term test or assignment has been calculated incorrectly should ask the course instructor to check the mark as soon as possible, and certainly before the end of the session. Students who wish to appeal an instructor's decision about the grading of term work should speak with, or write to, the Chair/Director of the academic unit offering the course.
   - Students who believe a mark should be reviewed on term work returned after the end of term, and after the instructor has submitted grades for the course, may submit a formal petition within 90 days of the relevant examination period.

2. Final Grades
   - Students who think there is an error in the calculation of their final grade can, within 90 days of the relevant examination period, request a clerical check through eService. A clerical check is arithmetical only; final exams will not be re-read or re-marked. Students are cautioned that a fee is charged for this service. If an error is discovered which results in a change of the final letter grade, the fee will be refunded. If the clerical check results in a grade change, the amended grade will stand whether it is higher or lower.
   - Students should be aware that before submitting any failing grade, instructors are required to recheck the calculation of term and final marks.
   - If, after reviewing a copy of a final examination, a student wishes to request it be re-read, s/he must submit a petition for re-reading within 90 days of the relevant examination period. When approved by petition, re-reading is arranged by the academic unit offering the course, which also authorizes normal re-reading. Normally the re-reading is done by the course instructor, unless the student makes a convincing argument that the work should be re-read by another faculty member. Claims of prejudice must be supported in detail and wherever possible confirmed by a third party. Whenever a grade is changed, the amended grade will stand whether it is higher or lower.

3. Violations of the University Assessment and Grading Practices Policy
   - Students who believe an instructor has violated the University Assessment and Grading Practices Policy should discuss the complaint with the instructor. If the violation relates to the announced schedule of assignments or the marking scheme, students must do this no later than the fourth week of classes. If it relates to changes in or divergence from the announced marking scheme, students must do this before the end of the final examination period.
   - If discussion with the instructor does not result in a satisfactory solution, students may appeal the instructor's decision to the Chair/Director of the academic unit offering the course. If this appeal does not resolve the problem, students may appeal to the Vice-Dean, Undergraduate.
   - Students who wish to withdraw from a course after the last day to withdraw without academic penalty on the grounds of a violation of the University Assessment and Grading Practices Policy must submit a formal petition. If the petition is granted because a violation of the policy has occurred, no record of registration in the course will appear on the transcript. Students cannot petition to withdraw from a course on the grounds that no work was
returned before the last day to withdraw without academic penalty if this is the result of their having been given an extension to complete the work for reasons relating to the individual student and not the rest of the class.

Petitions:
The University is governed by a series of rules and regulations to ensure that all students are treated fairly and equitably. A petition is a formal request made to the University asking to be exempted from an academic regulation or policy. Students must have good reason to make such a request, and must show they have acted responsibly and with good judgment in observing the academic regulations. In particular, students are expected to seek support when needed, and make informed academic decisions proactively. The University understands that, in some instances, students may have valid reasons to ask for special consideration.

While students have the right to petition, the University reserves the right to grant or deny requests. Students are cautioned that some academic matters cannot be petitioned, although they can sometimes be resolved by working directly with the instructor or academic unit offering a course.

Where a petition is justified, it must be filed by the appropriate deadlines, and with the appropriate documentation. Even if a petition has been filed by the deadline, it will not be considered if documentation is not provided within 10 business days of its submission (3 business days for requests to add a course late).

When they file a petition, students effectively authorize the release of relevant aspects of their University record to be reviewed by authorized members of the University (staff and/or faculty). Such information is held in the strictest confidence.

Students should submit their petition online via eService. If the issue is simple and the solution straightforward, students may not need advice or assistance with their petition. However, if there are more complex academic issues involved students may want to speak first with their instructor, program supervisor, or discipline representative. If serious personal problems are involved, students should meet with an academic advisor in the Academic Advising & Career Centre or a personal counselor in the Health & Wellness Centre. Students should not let this recommendation interfere with submitting their petition by the deadline. Students must submit whatever documentation is necessary to support their request.

Petitions for re-reading of final examinations and of term work returned after the end of a term or session and after the instructor has submitted grades for the course will be granted only if students:

- Articulate clear grounds for reconsideration, addressing the substance of an answer in relation to the mark given it or otherwise identifying the nature of the alleged misevaluation;
- Show that the alleged misevaluation is of a substantial nature: in an objective answer, that a correct response has been counted as incorrect, or in a subjective or essay answer, that the response has been under-evaluated substantially; and
- Support their argument with evidence or documentation that must be submitted with the petition along with a photocopy of the final examination (when available).

Students will be notified online via eService of the decision on their petition. The petitions office attempts to respond as quickly as possible, normally within three weeks of submission. Students should not inquire about the progress of their petition within that period. Complex cases and petitions submitted during very busy periods may take longer.

If a petition is granted, the following will be recorded on the student’s transcript (academic record):

- Withdrawal from courses after the published deadline (LWD or WDR depending on the circumstances);
- Deferral of suspension (‘suspension deferred’);
- Award of aegrotat standing (AEG); or
- Deferred examinations (SDF).

In cases of error on the part of the University, including violations of the University Assessment and Grading Practices Policy, withdrawal from courses is not recorded on the transcript.

The following deadlines apply only to UTSC. Deadlines and policies for courses taken on other campuses may differ.

1. Term Work
   - Requests for special consideration on term assignments and term tests within the jurisdiction of the instructor: last day of classes.
   - Petitions to submit term assignments or write make-up term tests after the last day to submit term work: last day of the examination period.

2. Final Examinations
   - Summer, Fall and Winter Sessions:
     - Petitions to write deferred examinations: 72 hours after the missed examination.

3. Missed Deferred Examinations
   - Students who miss a deferred exam will receive a mark of zero for the exam in the calculation of the final grade.
   - Only under exceptional circumstances (e.g., hospitalization or severe personal emergency), and when supported with strong and compelling evidence, will a petition for a second deferred exam be considered.
   - Petitions to write a deferred examination, which has been missed: 72 hours after the missed examination.

4. Errors in Course Registration or Withdrawal From Courses
   - Petitions to correct errors in course registration or to withdraw from courses without academic penalty after the published deadline should be submitted as early as possible but not later than: January 31 (Fall Session courses); May 31 (Fall/Winter or Winter Session courses); September 30 (Summer
5. Academic Regulations

Session courses).

5. Checking of Marks and Appeal of Grades

• Requests for checking of marks on term tests, essays and other term work made to the instructor of a course: last day of classes.
• Petitions for reconsideration of term work returned to students after the end of term: 90 days after the relevant examination period.
• Requests for a photocopy of a final examination: 90 days after the relevant examination period.
• Requests for reconsideration of term work returned to students after the end of term: 90 days after the relevant examination period.
• Petitions for re-reading of a final examination: 90 days after the relevant examination period.

Appeals:

1. Tier 1: The Registrar’s Office
   • Petitions are reviewed at the Registrar’s Office, where they are granted or refused. If a petition has not been granted, students can appeal this decision, and the petition will be reviewed by additional University Committees and Councils as follows:

2. Tier 2: Appeal by the Dean’s Advisory Committee
   • Students must submit a request for appeal no later than 90 days after the petition has been denied by the Registrar’s Office. Obtain a Request for Review of Petition Decision form from the Registrar’s Office. Students will be notified via eService as to when their appeal will be heard, as well as when a decision has been made.

3. Tier 3: The Subcommittee on Academic Appeals
   • If an appeal to the Dean’s Advisory Committee is denied, students may appeal to the Subcommittee on Academic Appeals.
   • Students must submit their request no more than 90 days after the second refusal of the petition has been communicated to them. Students must file a Notice of Appeal, which is available in the Office of the Campus Council located in the Bladen Wing, room BV504/BV502.
   • Students will be notified in writing as to when their appeal will be heard. Students are not required to attend in person, but it is to their advantage to do so.

4. Final Tier: Academic Appeals Committee of Governing Council
   • If an appeal to the Subcommittee on Academic Appeals is denied, a final appeal may be made to the Academic Appeals Committee of Governing Council. This is the most formal panel, and is chaired by a legal expert. The normal time frame for a hearing and response at this level may extend anywhere from several months to a year.
   • Students must submit their request for an appeal no more than 90 days after the refusal of the Appeal described in Tier 3 has been communicated to them.
   • An appeal is commenced by filing a Notice of Appeal form to the Director or Coordinator of the Academic Appeals Committee of Governing Council.

For complete information on petitions and appeals, including deadlines and guidelines for submission click on the Petitions tab on the Registrar’s Office website.
6.1 General Information

Degree and Program Completion:
Students are **wholly and ultimately** responsible for ensuring their academic programs meet UTSC’s regulations in all respects, including: completeness and correctness of course selection, compliance with prerequisite and corequisite requirements, completion of program requirements, completion of degree requirements and observance of all academic regulations and deadlines. Students are urged to seek guidance only from a responsible officer, such as Program Supervisors/Directors, departmental assistants, academic advisors from the Academic Advising & Career Centre, and the Registrar’s Office if they are in any doubt, and cautioned that misunderstanding, or advice received from another student will not be accepted as cause for dispensation from any regulation, deadline, course, program or degree requirement.

Enrolment Limits:
UTSC makes every reasonable effort to plan and control enrolment so as to ensure 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. Towards this end, we reserve the right to limit enrolment in programs, courses, or sections, and to withdraw courses or sections for which enrolment or resources are insufficient. UTSC and the wider University will not be liable for any loss, damages, or other expenses that such limitations or withdrawals might cause.

Changes in Programs and/or Courses:
The programs and courses described in this Calendar are active as of April 1st of the year, and available for the academic year to which this Calendar applies: they may not necessarily be available in later years. For each active program offered by UTSC, the courses necessary to complete its minimum requirements will be made available annually.

If UTSC must change the content of courses, instructors and instructional assignments, enrolment limits, prerequisites and corequisites, grading policies, requirements for promotion or timetables, all reasonable possible advance notice and alternative instruction will be given; however, UTSC reserves the right to make such changes without prior notice. UTSC and the wider University will not be liable for any loss, damages, or other expenses that such changes might cause.
6A. Completing Your Degree

6A.1 General Information

UTSC offers the following degrees, which are all Honours degrees:
- Honours Bachelor of Arts (HBA)
- Honours Bachelor of Science (HBSc)
- Bachelor of Business Administration (BBA)

Students earn their degree only after they complete all of the requirements described below. While doing so, students must adhere to the academic rules, regulations and policies outlined in this Calendar, on the Registrar’s Office website, and on the University’s Office of the Governing Council website. Degrees are conferred at university convocations, held twice annually: in June (Spring Convocation) and November (Fall Convocation). Students in their graduating year who intend to graduate and take part in the next Convocation must notify the Registrar’s Office of their intention through ACORN by the deadline listed in the Dates and Deadlines on the Registrar’s Office website.

Prospective graduands should check Degree Explorer at the end of March (for June graduation) or late September (for November graduation) to see if their Subject POSs have been confirmed by the Registrar’s Office or the relevant academic units. They should also check Degree Explorer at the end of May/late October for confirmation of their eligibility for graduation. For detailed information on graduation and convocation, please refer to the Registrar’s Office website.

Changes to Degree Requirements:
The degree requirements described here are effective as of the 2013-14 academic year. Students who registered at UTSC as of the 2013 Summer session should refer to these requirements as they complete their degree.
- Students who registered at UTSC prior to the 2013 Summer session, should refer to the degree requirements outlined in the 2011-12 and 2012-2013 Calendars.
- Students who registered at UTSC prior to the 2010 Summer session, should refer to the degree requirements outlined in the 2009-2010 Calendar.
- Students who registered at UTSC prior to the 1989 Summer session may, if they wish, complete the degree requirements outlined in the 1988-1989 Calendar.
- Students who registered at UTSC prior to the 1980 Summer session may, if they wish, complete the degree requirements outlined in the 1979-1980 Calendar. For these students, the type of degree is determined by the number of science credits completed.

Non-Degree Students:
Non-degree students are students registered in degree courses at UTSC:
- Who are not proceeding towards a University of Toronto degree or Certificate, or
- Who have been admitted on an interim basis and who must meet certain conditions before admission as regular degree students.

Except for regulations concerning degree requirements and regulations where non-degree students are specifically exempted, all regulations apply equally to non-degree students and degree students. Where students have been admitted on an interim basis as non-degree students, the conditions of their admission supersede the normal regulations governing academic status.

Note: students admitted as non-degree students are not permitted to enrol in UTSC programs.

Students Transferring to UTSC from Another Institution:
Students who transfer from another institution to UTSC are required to complete at least half of their program requirements, and half of their course credits, as UTSC students. Where all UTSC degrees require students to complete a total of 20.0 credits, students who transfer from another institution, may transfer a maximum of 10.0 credits towards their degree. However, the maximum number of transfer credits students can use towards a program, will be determined by the program; for example, for a program that requires a total of 12.0 credits, students may use a maximum of 6.0 credits, but for a program that requires a total of 8.0 credits, students may use a maximum of 4.0 credits. Students transferring from other divisions or faculties of the University of Toronto are exempt from this requirement.

6A.2 Degree Requirements

The following requirements apply to all degree students who first enrolled as UTSC degree students in the 2013 Summer Session or in a subsequent session.

Honours Bachelor of Arts (HBA) and Honours Bachelor of Science (HBSc):
To qualify for the degree, students must:
1. Pass a minimum of 20.0 credits:
   - Of the 20.0 credits, at least 6.0 credits must be at the C- and/or D-level, with at least 1.0 credit at the D-level:
   - Of the 20.0 credits, at least 0.5 credit must come from each of the following five breadth categories (breadth categories are identified in course descriptions):
     - Arts, Literature & Language
     - History, Philosophy & Cultural Studies
     - Social & Behavioural Sciences
     - Natural Sciences
     - Quantitative Reasoning
2. Complete a program or programs as below (only programs offered by UTSC may be used to fulfill degree requirements):
   - One Specialist program; or
   - Two Major programs; or
   - One Major program and two Minor offerings.

3. Ensure the combinations of programs used to meet the program requirement include a minimum of 12.0 different credits.*

4. Earn a cumulative grade point average of at least 1.85**. A student whose cumulative grade point average (CGPA) is at least 1.60, but less than 1.85, may request to graduate with a BA or BSc.

Notes:
*Some combinations of programs are not possible due to the similarity in course requirements. Students are advised to consult the Academic Advising & Career Centre to ensure they complete a minimum of 12.0 different credits.

**The CGPA requirement to complete certain programs is higher than 1.85. For details see the individual program descriptions.

The type of degree students receive, whether HBA or HBSc, will be determined by the Specialist or Major program completed. For example:
- Students completing a Specialist BA program will receive a HBA degree;
- Students completing a Specialist BSc program will receive a HBSc degree;
- Students completing a Major BA program, in conjunction with any combination of two Minor programs, will receive a HBA degree;
- Students completing a Major BSc program, in conjunction with any combination of two Minor programs, will receive a HBSc degree;
- Students completing a Major BA program and a Major BSc program may choose either the HBA or HBSc degree.

Bachelor of Business Administration (BBA):
To qualify for the degree, students must:
1. Pass a minimum of 20.0 credits.
   - Of the 20.0 credits, at least 6.0 credits must be at the C- and/or D-level, with at least 1.0 credit at the D-level.
   - Of the 20.0 credits, at least 0.5 credit must come from each of the following five breadth categories (breadth categories are identified in course descriptions):
     - Arts, Literature & Language
     - History, Philosophy & Cultural Studies
     - Social & Behavioural Sciences
     - Natural Sciences
     - Quantitative Reasoning
2. Programs: complete one of the Specialist program in Management, or the Specialist in Economics for Management Studies (only programs offered by UTSC may be used to fulfill degree requirements).
3. Ensure any combination of programs used to meet the program requirement include at least 12.0 different full credits.
4. Earn a cumulative grade point average of at least 1.85**.

**Note: the CGPA requirement to complete certain programs is higher than 1.85. For details see the individual program descriptions.

Year of Study:
The following is used to define the year of study of degree students:
- 1st year - has fewer than 4.0 full credits
- 2nd year - has 4.0 to 8.5 full credits
- 3rd year - has 9.0 to 13.5 full credits
- 4th year - has 14.0 or more full credits

6A.3 Other Degrees

Combined Degree Programs:
UTSC offers the following combined programs and degrees:

1. Combined Degree Programs, Specialist programs in Environmental Science, Honours Bachelor of Science/ Master of Engineering (in either Chemical Engineering & Applied Chemistry or Civil Engineering)
The Combined Degree Programs for Honours Bachelor of Science programs in Environmental Science (BSc) and the Master of Engineering (MEng) offered by the Faculty of Applied Science and Engineering allow exceptional students who are registered in one of eight UTSC Specialist/Specialist Co-op programs in Environmental Science (Environmental Biology, Environmental Chemistry, Environmental Geoscience, or Environmental Physics) to apply during their third year of studies, and be considered, for admission to the MEng programs in either Chemical Engineering & Applied Chemistry or Civil Engineering. The Combined Degree Programs can be completed in 5 years, with 1.0 credit (FCE) that may be counted towards both degrees. For more information about these programs, see the Combined Degree Programs section of this Calendar.

2. Combined Degree Programs, Specialist programs in Mental Health Studies, Honours Bachelor of Science/ Master of Social Work

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6A. Completing Your Degree

The Combined Degree programs for Honours Bachelor of Science programs in Mental Health Studies (BSc) and the Master of Social Work offered by the Factor-Inwentash Faculty of Social Work are ideal for students intending to pursue a career as a social worker. They allow exceptional students who are registered in the UTSC Specialist/Specialist Co-op programs in Mental Health Studies to apply during their third year of studies, and be considered, for admission to the MSW. The Combined Degree Programs can be completed in 6 years. For more information about these programs, see the Combined Degree Programs section of this Calendar.

3. Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching
The Combined degree programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in one of 22 specified Specialist and Major programs in Chemistry, Biological Chemistry, Biochemistry, Environmental Chemistry, Environmental Physics, Physics and Astrophysics, Physical and Mathematical Sciences, Mathematics, and French to apply during their third year of studies, and be considered, for admission to the MT. The Combined Degree Programs can be completed in 6 years with 1.0 credit (FCE) that may be counted towards both degrees. For more information about these programs, see the Combined Degree Programs section of this Calendar.

Second Degrees:
Students beginning a second degree are normally exempted from first year of the degree requirements by being granted 5.0 credits, regardless of the number of previous degrees. Students who hold a BA, BSc or BBA from the University of Toronto will be considered for admission to a second degree program only of a different type (e.g. students with a BA degree may only complete a BSc or BBA degree). Application for admission to a second degree program is made through the Manager of Admissions. Before applying, students are urged to consider if a second degree is actually required for their purposes, for example, a make-up year as a non-degree student may satisfy admission requirements for graduate school.

Discontinued Degrees and Upgrading:
UTSC has discontinued the 15 course (three-year) BA and BSc degrees; however, students who began their three-year degree program at UTSC prior to the 2004 Summer session may, still choose a 15 course (three-year) degree; these students should consult the Registrar’s Office.

Students with a BA or BSc who return to upgrade their degree to an Honours BA or Honours BSc must exchange the BA or BSc for the same Honours degree; for example, a BA can only be upgraded to an Honours BA; a BA cannot be upgraded to an Honours BSc. Similarly, a BSc cannot be upgraded to an Honours BA. Students who upgrade to an Honours degree are not eligible to attend the convocation ceremony for the upgrade.

6A.4 Certificate Program in Business

Students in this program must complete the following in order to qualify for the Certificate in Business:
1. Pass 6.0 credits in Management and Economics for Management Studies, including: [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] or [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)], MGTA01H3/(MGTA03H3), and MGTA02H3/(MGTA04H3)
2. Students in their graduating session who intend to take part in the next Convocation must notify the Registrar’s Office of their intention through ACORN. Students who are unable to request graduation through ACORN should contact the Registrar’s Office.

UTSC certificate students will graduate with honours if their cumulative grade point average is 3.20 or better.

6A.5 Language Citation

The Language Citation is intended to provide an incentive to students who are interested in intensive study of a particular language but who cannot, or may not wish to, complete a Specialist, Major or Minor in the language. It is neither a substitute for a program in the language, nor does it impede students wishing to complete such a program. It simply acknowledges language proficiency on the student’s transcript.

The Language Citation is available to students who graduate in 2007 or in a later year. Students who graduated prior to 2007 may be eligible for this citation if they return to UTSC for further language study that contributes to the assessment of the Citation.

Requirements for the Language Citation:
The Citation may be earned in French or Mandarin.
1. Students must complete 2.0 credits in the language beyond the introductory level and must achieve a final grade of at least B- in each of the courses that make up those two credits.
2. The 2.0 credits may be language instruction or may be other courses (e.g. literature courses) where instruction is in the language to be assessed.

Students normally take 1.0 credit at the introductory level. Those who already have proficiency in a language and wish to proceed directly to courses beyond the introductory level should consult the relevant program supervisor about appropriate placement. Similarly, students who wish to include courses taken in a country where the language is spoken should consult the relevant program supervisor about appropriate study abroad options.

Assessment of the Language Citation:
The Language Citation will be assessed at the point of graduation. To apply for a Citation, students should contact the Centre for French and Linguistics in advance of graduation, presenting the Centre with a copy of their academic record (produced from ACORN through the Student Web Service) and indicating the courses they would like considered in the assessment. (For more information contact cfl-ua@utsc.utoronto.ca)
The Language Citation will consist of a notation in the UTSC section of the transcript that reads: “Completed the requirements of the Language Citation
6A.6 Degree Explorer

Degree Explorer is the University of Toronto's degree planning tool: students can use it to determine whether they are meeting their degree and/or program requirements (determination regarding the completion of degree requirements will be made by the Registrar’s Office). In addition, students can review their academic history, or use the planner to determine how future course choices might meet their requirements. The service is a complementary tool to your regular academic advising sessions.

Students access Degree Explorer through the ACORN webpage using their UTORid and password. Degree Explorer enables students to:

- Check progress in programs and degrees;
- Check prerequisites and exclusions, and plan the courses necessary for programs and degrees;
- Explore hypothetical "what if" scenarios (e.g. different programs, use different program requirements, adding courses, etc.); and
- After confirming their intent to graduate, prospective graduands can check Degree Explorer to see if their Subject POSs have been confirmed by the Registrar’s Office or relevant academic unit; they can also check Degree Explorer for confirmation of their eligibility for graduation by the Registrar’s Office.
6B. Selecting Your Program(s)

Programs, commonly referred to as Subject POS(s) and sometimes as programs of study, are groupings of courses in one or more disciplines. Students are reminded that completion of a program (or programs) will fulfill only one component of the requirements necessary to earn their degree (see the Getting Your Degree section of this Calendar).

Students are strongly urged to consult frequently with their Program Supervisor/Director as they progress through the program requirements. Program Supervisors/Directors are identified in the Discipline sections of the Calendar.

Program Supervisors/Directors have the authority to deal with special circumstances concerning program requirements. They may:
- Accredit to program requirements, courses taken on other campuses of this University or at other Universities; and
- Permit course substitutions or other modifications of program requirements where they deem them appropriate.

When special arrangements are made, students must ask their supervisor to record them in Degree Explorer.

6B.1 Registration for Subject POS(s)

1. Degree students must select their Subject POS(s) when they have passed 4.0 credits. The first period to select and/or apply to programs begins in April for students who expect to complete their fourth credit by the end of the Winter session; the second period begins in July for students who expect to complete their fourth credit by the end of the Summer session.

2. Students may only select Subject POS(s) offered by UTSC; instructions can be found on the Registrar's Office website.

3. Students should be mindful that program admission and course requirements can change from year to year, and as of April 1, 2013 the requirements they must complete are those that are in place effective April 1st of the year in which they select the program(s) as a Subject POS, or any subsequent year. For example:
   - A student selecting the Specialist program in Chemistry on April 10, 2013 must satisfy the admission requirements, and fulfill the course requirements, that are in place effective April 1, 2013, as they are described in the 2013-14 Calendar, or any subsequent Calendar; or
   - A student selecting the Major program in English on October 20, 2013 must satisfy the admission requirements, and fulfill the course requirements, that are in place effective April 1, 2013, as they are described in the 2013-14 Calendar, or any subsequent Calendar; or
   - A student selecting the Minor program in Biology on February 12, 2014 must satisfy the admission requirements, and fulfill the course requirements, that are in place effective April 1, 2013, as they are described in the 2013-14 Calendar, or any subsequent Calendar.

Note: the Calendar is published once annually, by no later than April 1. Program Supervisors, instructors in A-level courses and academic advisors from the Academic Advising & Career Centre may be consulted for assistance.

4. Students with fewer than 4.0 credits are not required to select a program; however, they should, when selecting their courses, consider carefully the admission and program requirements of any programs they may later choose to follow. Program Supervisors/Directors, instructors in A-level courses and academic advisors from the Academic Advising & Career Centre may be consulted for assistance.

Notes:
- Students who have registered in a program(s) should consult at least once each year with their program supervisor to ensure their course selection will meet program requirements.
- Students are responsible for ensuring their course selection will enable them to complete the requirements of their program(s) by the time they complete their other degree requirements. In certain programs, approval by the supervisor of some or all courses is necessary. In all programs, the supervisor is available for advice concerning program requirements and course selection.

6B.2 Limited and Unlimited Enrolment

Programs are designated as either "limited" or "unlimited" enrolment. To determine if a program is limited or unlimited enrolment visit the Registrar’s Office website.

Limited Enrolment:
Enrolment in some programs is limited to a maximum number of students. Such limits are generally defined by specified course and/or grades "admission" requirements, which are identified in the discipline areas of this Calendar, and/or in descriptions of individual programs. Other admission requirements may also apply.

Unlimited Enrolment:
Beyond the overall requirement that students must have passed 4.0 credits in order to enrol, unlimited enrolment programs will not have admission requirements, and will not limit the number of students who may enrol.

6B.3 Types of Programs

Specialist:
Specialist programs are designed to provide depth and intensity of study within a limited area defined as a discipline, a group of disciplines, or a particular theme or area of study. They will normally require students to complete 12.0 to 16.0 credits, including at least 4.0 credits at the C- and/or D-level, of which 1.0 credit must be at the D-level.
6B. Selecting Your Program(s)

Major:
Major programs are designed to provide concentration in an area of study defined as a discipline, a group of disciplines or a particular theme or area of study. They will normally consist of 7.0 to 9.0 credits, including at least 2.0 credits at the C- and/or D-level.

Minor:
Minor offerings are designed to provide study in a specific area for students desiring wide-ranging but coherent programs in different areas of the curriculum. They will normally consist of 4.0 to 5.0 credits, including at least 1.0 credit at the C- and/or D-level.

6B.4 Joint Programs with Centennial College

UTSC and Centennial College collaborate to offer Joint programs. These programs build on the academic strengths of the University of Toronto degree together with Centennial College's strengths in technical and practical education. Students earn a University of Toronto Scarborough degree, and also have the opportunity to qualify for a diploma or certificate from Centennial College, which in some cases may require one additional academic session.

All Joint Programs are limited enrolment Specialist or Major programs, and may be taken only as part of an Honours BA or BSc degree. Currently, the following Joint programs are offered:

- Specialist (Joint) Program in Journalism (Arts)
- Major (Joint) Program in New Media Studies (Arts)
- Specialist (Joint) Program in Paramedicine (Science)

For specific program details, including application procedures, admission requirements, and program requirements visit the Joint Programs website. Program admission and course requirements are also described in the relevant discipline sections of this Calendar.

Students in Joint programs will enrol in all degree credit courses, including those taken at Centennial College, at UTSC through ACORN. They are urged to meet regularly with their UTSC Program Supervisor/Director to ensure they are progressing appropriately through their program.

Notes:
- Registration and academic information for the Joint programs is shared with the relevant Program Supervisor and Departments at Centennial College.
- Tuition and incidental fees are payable to the University in the normal way. In each session in which students are taking one or more courses at Centennial College, a program fee relating to the use of materials is charged. The amount of the fee varies by program.

6B.5 Co-operative Programs

General Information:
UTSC offers Co-operative Education (Co-op) programs in two distinct units: Arts & Science and Management. These Co-op programs consist of two parts - an academic program of study and a Co-op work term component, both of which are integral parts of the Co-op program curriculum. Practical work experience in an approved setting is undertaken to enhance academic studies through the opportunity to apply and develop concepts and/or skills that are important in the related program of study.

All Co-op programs are either Specialist or Major programs. In accordance with UTSC Degree Requirements, Major Co-op programs must be combined with either another Major program, or with two Minor programs. Credits associated with the successful completion of work-term requirements are in addition to the 20.0 credits required for a degree. For this reason, some Co-op programs may take up to five years to complete.

No student may be enrolled in more than one Co-op program and all Co-op students must be registered at UTSC in order to maintain their Co-op status. For a listing of Co-op programs see the Academic Units and Programs section of this Calendar. Students are also encouraged to review the related Co-op Office website to better understand the recruitment process, Co-op fees and best practices for success:

- Arts & Science Co-op
- Management Co-op

Admission to Co-op Programs:
Students normally apply for entry to Co-op programs directly from secondary school, but in some cases may apply at the end of their first year of university studies, when they have earned at least 4.0 credits. For specific course requirements and the maximum number of credits permitted for application, please see the description of the individual program in this Calendar.

Students admitted to Arts & Science Co-op from secondary school will request a specific Co-op Subject POST, or program, at the end of their first year, after achieving any necessary required courses for that particular area of study.

Prospective Applicants
Enrolment in Co-op programs is limited and is granted on the basis of applicants' academic performance, interest, experience and potential ability. Students applying directly from secondary school, or transferring to UTSC from another UT division, or from another post-secondary institution, must use the special code for the Co-op program in their Application for Admission to an Ontario University. See the Admissions and Student Recruitment website for further details.

Once UTSC is notified of the application, where it is relevant, students are informed about any additional documents that are required to support their application. For example, some Co-op programs require a Supplementary Application. The Supplementary Application includes information that is in
addition to the academic record, such as a statement of interest, information about extracurricular activities, and volunteer and job experience. In some cases, an interview may be conducted.

Current UTSC Students
Students studying at UTSC, who are not already in a Co-op program, may apply for admission into a Co-op program following their first year of study. For minimum qualifications and admission requirements please see the description of the individual program in this Calendar. Application procedures can be found on websites of both Arts & Science Co-op and Management Co-op.

Fees:
Every student in a Co-op program is required to pay Co-op fees as established by the University. The Co-op fees relate to costs associated with the administration of the Co-op program including, but not limited to, the facilitation of work-term preparation courses, the development of work term opportunities, and staffing support for students throughout the competitive job search process. These fees are calculated in accordance with Ministry of Education and UT policies. Tuition fees do not apply, and are not charged, when a student is registered in a work-term and not taking other courses, nor are there any additional tuition fees associated with the required non-credit Co-op work-term preparation courses. If a student leaves the Co-op program for any reason, Co-op fees paid in earlier sessions are not refundable.

Program of Study Requirements:
Co-op programs require completion of all program of study and degree requirements (normally within eight four-month terms of full-time study), as well as successful completion of two or three four-month work terms, as specified by the particular program of study. Work terms are evaluated by the Program Supervisor/Director, the Co-op Office, and the employer. Upon completion, a grade of CR (Credit)/NCR (No Credit) is recorded on the transcript. The credits earned for successful work-term completion are in addition to the 20.0 credits required for the degree.

To receive certification for completion of the Co-op program on graduation, a student must:
• Meet all of the normal requirements for the Honours BA, Honours BSc or BBA degree;
• Follow the course of studies described for the specific program;
• Complete the non-credit co-op work-term preparation course and any other prerequisites for the work-term as required by the specific program of study;
• Maintain a cumulative grade point average (CGPA) of at least 2.50 (note that this is higher than the CGPA of 1.60 required for good standing in most non-Co-op programs of study);
• Receive a satisfactory evaluation for all work-term performance and work-term reports;
• Register as a full-time student during study terms (i.e., a course load in each study term of at least 1.5 credits and normally 2.5 credits);
• Return to studies after each work term; and
• Pay Co-op fees as assessed by the University.

For additional information about any requirements specific to a particular program of study, see the description of the individual program in this Calendar.

Status in Co-op Programs:
Status in a Co-op program will be determined at the end of each session (Fall, Winter, and Summer) for students who have attempted at least 3.0 credits since beginning their studies at UTSC, or in other Arts and Sciences Divisions at the University. Students with a cumulative grade point average (CGPA) of 2.5 or higher are considered to be in good standing.

• Students who have attempted at least 3.0 credits and have a CGPA of between 2.30 and 2.49 are placed on probation in the Co-op program (i.e., they remain in Co-op, but subject to certain conditions).
• Students may clear probation by achieving a CGPA of 2.50 or better in the next study session. Where the CGPA is below 2.50, but the sessional grade point average (SGPA) is at least 2.50, students may be granted a second probationary semester.
• Students must clear their probation within a maximum of two study sessions in order to remain in a Co-op program.
• Students on probation in the Co-op program may not apply for a work term until they have successfully cleared their probation. However, if a student’s CGPA falls below 2.50 after having secured a job placement through the recruitment process, the student will be permitted to complete the work term, but must clear probation before being permitted to participate in the next recruitment process.
• Students who have attempted at least 3.0 credits and have a CGPA of less than 2.30, or who have failed to clear probation within two study sessions, will be removed from the Co-op program.

Work-Term Preparation Course: Introduction to Co-op Work:
During their first year of enrolment in a Co-op program, students will participate in a non-credit Co-op work-term preparation course designed to prepare them for their job search and work-term experience, and to maximize the benefits of their work-term. The course will cover a variety of topics intended to help students develop the skills and tools needed to secure work-terms that are appropriate to their program of study, and to perform professionally in the workplace. Students must complete this course before they are eligible to compete for work-terms (IDS Co-op students are required to complete an additional preparation course during their third year). No academic credit is given for the course and no additional course fee is assessed. Students should register in one of the following courses depending on their program of admission:
• Arts & Science Co-op: COPD01H3Y - Navigating the World of Work
• Management Co-op: COPD07H3Y
• Management and International Business Co-op: COPD08H3Y
• International Development Studies Co-op: COPD02H3Y (first year and transfer students)
• International Development Studies Co-op: COPD04H3Y (third year students)
6B. Selecting Your Program(s)

Work Terms:
Work-term opportunities are developed by the Co-op Office for the program, but students are required to apply and compete with other Co-op students for these opportunities. While on a work-term, students remain in contact with UTSC through the Co-op Office and the Program Supervisor of the program of study. In addition, the employer will evaluate the student's performance on work-terms. Also, while on work-term students must prepare for a work-term report that will be evaluated by their Program Supervisor or an academic marker designated by their Department. The work-term report must be submitted to the Co-op Office no later than the end of the second week of the study term immediately following the work-term in question. Failure to meet this deadline will result in a grade of NCR (No Credit) for the work-term. A failed work-term will be recorded on the transcript, and the student will be removed from the Co-op program.

Work-terms normally begin in September, January, or May, and students are normally eligible to seek a work-term after three or four academic terms of full-time study, as specified by each program of study. Co-op students should review the descriptions of their program of study contained in this Calendar for all work-term eligibility requirements. To be eligible for later work terms, students must be in good standing in the program, have completed any requirements specific to the program, and have received a grade of CR (Credit) on their earlier work-term(s).

6B.6 Additional Regulations Concerning Subject POSIt(s)

1. Students may register in no more than three programs at any one time, and may receive certification of completion of no more than three programs (including no more than two Majors and/or Specialists).

2. Students may register in no more than one limited enrolment Specialist program at any one time.

3. Students may register in no more than one Co-operative program at any one time.

4. Students are reminded that, although some programs may require them to take courses on the St. George campus, only UTSC programs can be used to meet degree requirements.

5. Students intending to enrol in any course on another campus which they intend to count towards their program(s) should consult with their Program Supervisor/Director first.

6. Students who transfer from another institution to UTSC are required to complete at least half of their program requirements, and half of their course credits, as UTSC students. Where all UTSC degrees require students to complete a total of 20.0 credits, students who transfer from another institution, may transfer a maximum of 10.0 credits towards their degree. However, the maximum number of transfer credits students can use towards a program, will be determined by the program; for example, for a program that requires a total of 12.0 credits, students may use a maximum of 6.0 credits, but for a program that requires a total of 8.0 credits, students may use a maximum of 4.0 credits. Students transferring from other divisions or faculties of UT are exempt from this requirement.

6B.7 UTSC Students Wanting to Change Their UTSC Program

1. Students wanting to change their UTSC must do so through ACORN.

2. Students should be mindful that admission and course requirement can change from year to year, and as of April 1, 2013, students must meet the program admission requirements, and complete the course requirements, that are in place effective April 1st of the year in which they select the new program as a Subject POSIt, or any subsequent year. It is therefore in the student's best interest to declare the change in Subject POSIt as early as possible.

3. As all Specialist programs in Management (BBA) share a common core of course requirements, students who have already been admitted to a Specialist Management Subject POSIt, but who wish to move from one Specialist Management program to another Specialist Management program are permitted to follow the program requirements in place when they were originally admitted to a Management program. For example, a student who is admitted to the Specialist in Management in Fall 2012, and who subsequently decides to move to the Specialist in Management and Marketing in 2013 (or any subsequent year), may complete the program requirements in place effective April 1st, 2012 (or any subsequent year).

4. Students who are enrolled in a Co-operative program Subject POSIt, who want to move from the Co-op program to the non Co-op version of the same program, may follow the program requirements that are in place for the year the student was admitted to the Co-op program, or any subsequent year.

5. Students who have started, or completed, the course requirements of a program, and subsequently decide to move to a different program in the same subject area (e.g., moving from a Minor in Global Asia Studies to a Major or Specialist in Global Asia Studies, or from a Specialist in Human Biology to a Major in Human Biology) may use the courses already completed towards the new program. Students are reminded that as of April 1, 2013, students must meet the program admission requirements, and complete the course requirements, that are in place effective April 1st of the year in which they select the new program as a Subject POSIt, or any subsequent year. It is therefore in the student's best interest to declare the change in Subject POSIt as early as possible.

6B.8 Certification of Completion of Programs

Completion of programs is certified when the degree is conferred. Certification is given only for UTSC programs. Students in their final year who have confirmed their intention to graduate at the next Convocation, or who have confirmed that they are about to complete an upgraded degree, do not have
6B. Selecting Your Program(s)

to request certification of completion of their programs.

Students who have graduated, but are returning to UTSC as a non-degree student in order to upgrade their degree, or add a second or third program to their academic record, must inform the Registrar’s Office during the Graduation Request period.

6B.9 Registration in Programs That Have Been Closed

Students who are registered in programs that have been closed will be able to complete their programs. UTSC will either offer the courses necessary for them to complete program requirements or will make other appropriate arrangements such as course substitutions. Students should consult with the relevant Program Supervisor/Director or the Chair/Director of the academic unit in which the program was offered.
6C. Choosing Your Courses

6C.1 General Information

A course is a unit of teaching that focuses on a specific discipline area (e.g. English or Mathematics), and takes place within a specific timeframe. It will be led by an instructor (or instructors), and have a fixed roster of students, who may receive a grade and academic credit upon its completion.

Students are cautioned that some university programs and courses require the completion of certain Grade 12 University and/or University/College Preparation courses as prerequisites. For more information review the UTSC Viewbook, or consult with Admissions and Student Recruitment staff.

Examples, include:
• Management and Computer Science programs require both MHF4U Advanced Functions and MCV4U Calculus & Vectors; and
• All programs in Biological Sciences require MHF4U Advanced Functions, MCV4U Calculus & Vectors, SBI4U Biology, and SCH4U Chemistry.

Students select their courses through ACORN, and are responsible for the accuracy of their own registration. When selecting, adding and dropping courses in ACORN, students should always list their courses upon completing the transaction. Students are reminded that registration consists of two basic steps:
• Course selection; and
• Fees payment (or an arrangement of a fee payment deferment).

Both must be completed by the appropriate deadlines in order to be considered a "registered" student and to retain a place in any courses selected.

For additional information on registering in courses, as well as deadlines, see the Registrar’s Guide or the Registrar’s Office website.

6C.2 Understanding Course Descriptions

Course descriptions in this Calendar contain the following elements:
• The course code – a distinct 8 character alpha-numeric code;
• The course title;
• The course content;
• Prerequisites – courses students must already have passed prior to taking the described course;
• Corequisites – courses students must take in the same semester as, or already have passed prior to taking, the described course;
• Exclusions – students who have already passed a course listed as an exclusion, cannot take the described course for credit;
• Recommended preparation – background material or courses that enhance a student's understanding of a course;
• Enrolment Limits – indicate the described course is limited to a specific number or group of students;
• Breadth Requirement – indicates the category of breadth requirement the described course fills; and
• Note: any additional non-curricular information about the course.

Interpreting Course Codes:
All course codes are distinct 8 character alpha-numeric codes. Consider the following examples: ANTA01H3, BIOB50H3, ENGC09H3, PSYD35H3.

<table>
<thead>
<tr>
<th>Parts of the Course Code</th>
<th>What it Means</th>
</tr>
</thead>
<tbody>
<tr>
<td>Part 1: the combination created by the first three characters, for example:</td>
<td>Identifies the discipline area the course belongs to:</td>
</tr>
<tr>
<td>• ANT</td>
<td>• ANT refers to Anthropology</td>
</tr>
<tr>
<td>• BIO</td>
<td>• BIO refers to Biology</td>
</tr>
<tr>
<td>• ENG</td>
<td>• ENG refers to English</td>
</tr>
<tr>
<td>• PSY</td>
<td>• PSY refers to Psychology</td>
</tr>
<tr>
<td>Refer to the Academics At-A-Glance section of the Calendar for a complete list of discipline area codes.</td>
<td></td>
</tr>
<tr>
<td>Part 2: the fourth character, for example:</td>
<td>Identifies the level of the course:</td>
</tr>
<tr>
<td>• A</td>
<td>• A-level corresponds to first year</td>
</tr>
<tr>
<td>• B</td>
<td>• B-level corresponds to second year</td>
</tr>
<tr>
<td>• C</td>
<td>• C-level corresponds to third year</td>
</tr>
<tr>
<td>• D</td>
<td>• D-level corresponds to fourth year</td>
</tr>
<tr>
<td>Part 3: the combination created by characters five and six, for example:</td>
<td>These numbers may be arbitrary, or may indicate the course belongs to a sequence.</td>
</tr>
<tr>
<td>• 01</td>
<td></td>
</tr>
<tr>
<td>• 50</td>
<td></td>
</tr>
<tr>
<td>• 09</td>
<td></td>
</tr>
<tr>
<td>• 35</td>
<td></td>
</tr>
<tr>
<td>Part 4: the seventh character, for example:</td>
<td>Identifies the credit value of the course:</td>
</tr>
<tr>
<td>• H</td>
<td>• H courses have a value of 0.5 credit</td>
</tr>
<tr>
<td>• Y</td>
<td>• Y courses have a value of 1.0 credit</td>
</tr>
</tbody>
</table>
### Other Common Notations in Calendar Descriptions:

1. **Prerequisites in Square Brackets [ ]:**
   - Square Brackets are used in prerequisites to indicate aggregate or alternate choices example:
     - \([\text{MGEB01H3 or MGEB02H3} \text{ and } \text{MGEB05H3 or MGEB06H3}]\) indicates that students must take either MGEB01H3 or MGEB02H3 AND either MGEB05H3 or MGEB06H3 (2 courses); but
     - \([\text{MGEB01H3 and MGEB02H3} \text{ or } \text{MGEB05H3 and MGEB06H3}]\) indicates students must take either MGEB01H3 and MGEB02H3 OR MGEB05H3 and MGEB06H3 (2 courses).

2. **Prerequisites, Corequisites and Exclusions in Round Brackets ( ):**
   - Prerequisites, corequisites and exclusions enclosed in round brackets; e.g., \((\text{POLB50H3})\) are no longer offered.
   - Students who have completed, in a previous session, a prerequisite or corequisite course that is no longer being offered (i.e. appears in round brackets) may make use of the course to meet the requirements of the course being described.
   - Students may not register for credit in any course, which lists as an exclusion, a course they are currently taking or have already passed, even if the excluded course is no longer offered (i.e. appears in round brackets). Such courses will count as “extra” (EXT).

### UTSC delivers courses using three types of instruction:
- A lecture/seminar is the most traditional method of delivering a course. They normally meet several times a week, and are held in person. Some lectures may be delivered online.
- A tutorial provides supervised review of course material, typically in small groups.
- A practical provides applied training.

### 6C.3 Alternative Types of Courses

#### Credit/No Credit:
- UTSC degree students may select up to 2.0 full credit of their degree credits to be assessed on a Credit/No Credit basis. Courses intended for individual study, such as supervised reading courses, are not eligible for Credit/No Credit assessment. Students must choose this mode of assessment via ACORN no later than the last day to drop courses without academic penalty. Once the deadline has passed, students may not under any circumstances reverse this decision.

The CR/NCR option is open only to degree students. Once students have graduated, they may not complete courses on a CR/NCR basis, even if they enrolled in the course before their graduation; for example, a student graduating in June, selecting a Summer course as CR/NCR. Or a student graduating in November, selection a Fall or Winter course as CR/NCR, will have the CR/NCR designation removed and a percentage grade will appear on the student’s record.

#### Supervised Reading, Supervised Research and Independent Study:
- Generally offered at the C- or D level. Students in these courses work under the direction of a faculty member with whom they meet periodically or in whose laboratory they work. Students must obtain written permission of instructors to be registered in them (forms are available from the Registrar’s Office). Please note that some disciplines require submission of their own special application forms for courses of this type, in addition to or in place of, the Supervised Study form.

#### Restricted Admission:
- Some courses have restricted admission and may require approval before students are allowed to enrol in them. Restricted courses and the approval required are listed in the Course Timetable.

#### WebOption:
- Some UTSC courses have WebOption sections intended to provide enhanced flexibility with respect to how and when students attend lectures. These sections are normally created by recording instructors as they give their traditional lectures, then posting these recorded lectures, along with any slides shown in class, on the internet for students to watch online. Thus, students can make these classes fit their lives and their schedules.

**Extra (EXT):**
Extra courses are those for which students will not receive credit. The course and its grade will appear on the student's transcript (designated as an extra course) but the grade is not included in the student's grade point averages nor does the course count towards the degree. However, if appropriate, it may be used to satisfy program requirements.

6C.4 Regulations Concerning Course Selection

1. Students whose registration contravenes the regulations may be withdrawn from courses, regardless of when the contravention comes to light.

2. Prerequisites: students must have passed any prerequisites identified in the course description before they enrol in the described course, unless they have explicitly waived by the instructor
   • Instructors are empowered to waive prerequisites if they feel that there are adequate grounds for so doing.
   • If a student registers in a course without meeting its prerequisite and without obtaining a specific waiver, the student may be withdrawn from the course at any time without warning. Students remain in such courses at their own risk since not having passed the prerequisite will not be accepted as grounds for special consideration or petition.
   • If the prerequisite being waived is listed as a program requirement, students should discuss the matter in advance with their Program Supervisor/Director—the Program Supervisor/Director may need to record an exception in Degree Explorer.
   • The Registrar's Office does NOT require notification of a prerequisite waiver.

3. Corequisites: students must either already have passed the corequisite course, or must enrol in it at the same time as they take the course being described.
   • Instructors are permitted to waive corequisites if they feel that there are adequate grounds for so doing.
   • If students register in a course without meeting its corequisite, or if they withdraw from the corequisite course without obtaining a specific waiver, the student may be withdrawn from the described course at any time without warning. Students remain in such courses at their own risk since not having passed the corequisite will not be accepted as grounds for special consideration or petition.

4. Exclusions: students may not register for credit in any course which lists as an exclusion a course they are currently taking or have already passed (this includes credit awarded for work at other institutions, and courses that have been closed/deleted).
   • Students are cautioned that courses are not always mutually exclusive, so it is important to check the Calendar entries for both courses to ensure each lists the other as an exclusion.
   • Where students enrol in an excluded course, the second course will be marked as an extra course and, although it will appear on the transcript and can be used to satisfy program requirements, it will not count towards degree requirements or CGPA.
   • ACORN does not automatically check for exclusions, but courses will be identified as extra courses in the student's academic record, as soon as the exclusion is discovered. Students are cautioned this could happen without warning at any time during the student's studies at UTSC. Students can consult Degree Explorer to identify exclusions.
   • It is every student's responsibility to ensure s/he does not duplicate his/her studies, whether inadvertently or otherwise. Some FAS and UTM courses that have not been identified in this Calendar may be exclusions of UTSC courses and vice versa; for this reason, it is always good practice to consult the Program Supervisor/Director or an academic advisor from the Academic Advising & Career Centre before taking courses on other campuses. Similarly, some UTSC courses, particularly ones that have been closed, may not appear in this Calendar as exclusions. If UTSC, FAS and/or UTM courses have similar titles or content, contact the academic unit offering the course(s) to determine if the content is so similar the courses should be considered as exclusions.

5. Students may not re-register for credit in a course they have already passed, but they may re-register in a course they have taken, but failed. In the latter case, both registrations in the course are shown on the student's record, and both grades count in the student's CGPA.

6. Where students may not register in a course for credit, they may register in it as an extra (EXT) course. In such cases, the course is shown on the student's record but the grade is not included in the student's CGPA, nor does the course count towards the degree requirements; however, if appropriate, it may be used to meet program requirements.

7. Students must register for their courses in accordance with instructions issued each session by the Registrar's Office. Students who wish to change their registration:
   • May do so only until the deadlines for adding and dropping courses, described in the Dates and Deadlines found on the Registrar's Office website; and
   • May do so only through ACORN.

8. Students are cautioned that they are responsible for ensuring their course schedule is conflict free. Students who knowingly remain in courses that conflict with one another will not receive special consideration should they encounter problems related to the conflict.

9. Where multi-sectioned courses have a common examination, students enrolled in an evening section of the course may be required to sit an examination during the day and vice versa. Students may also be required to write Saturday or Sunday term tests or examinations.

6C.5 Regulations Concerning Course Load

1. A standard course load for a full-time undergraduate student in any session is 2.5 credits.

2. Students who register in at least 1.5 credits in a session are considered to be full-time. Students who enrol in fewer than 1.5 credits in a session are considered to be part-time. Students who are restricted to part-time studies may have a course load of no more than 1.25 credits in any session until
they have completed at least 3.0 credits and have a cumulative grade point average of at least 2.00.

3. Undergraduate students at UTSC are not permitted to enrol in more than 3.0 credits per term without permission from the Program Supervisor/Director. Limited exceptions are made for students working towards a BBA degree; for more information consult the Management section of this Calendar.

4. Students writing deferred exams will have their credit load reduced by the credit weight of the exams deferred in the session leading up to the deferred exam. For the purposes of calculating the course reduction, the normal credit load per session is considered to be 2.5 credits. For example, a student writing a deferred exam in the Fall deferred exam period with a credit weight of 0.5 (half credit) would be permitted to enrol in a maximum course load of 2.0 credits in the Fall session. For more information, and the course load chart, go to the Registrar's Office website.

5. Students placed on probation may not exceed a course load of 2.0 credits per session.
   • Upon notification of probation, students enrolled in future sessions must drop all courses above the 2.0 full credits maximum. Failure to do so within 7 days of notification of standing on ACORN will result in withdrawal from all courses. Students who successfully petition to re-enrol back in to the appropriate course load are subject to a late registration fee.
   • Students who are allowed to continue on probation because they have achieved a sessional grade point average of at least 1.60 may take a normal course load.
   • While on probation, students must meet with an academic advisor to discuss the reasons leading to being placed on probation and to plan strategies to improve academic performance. Staff in the Academic Advising & Career Centre are available to provide guidance.
   • For more information about academic probation go to the Registrar’s Office website.

6C.6 Regulations Concerning Course Changes

Students may add courses or drop courses without academic penalty through ACORN up to the dates stated in the Sessional Dates. The deadlines for adding or dropping courses are strictly applied.

• Students who make changes through ACORN should end their transaction by listing their courses to ensure the change has been processed properly. They will not receive written confirmation of the change but it will be recorded in the Activity log kept by the University, which can be accessed through ACORN.
• At the time students add a course to their record they are accepting responsibility for fees payment for it. Students who drop courses by the appropriate deadline may be entitled to a fees adjustment. (See the fees refund schedule and information published each session by Student Accounts.

Note: Exceptions to the University's fees refund schedule are made only in the case of error on the University's part.

Changing Meeting Sections in a Course:

Students may change meeting sections in a course at any time provided that, if the change takes place after the deadline for adding the course, they have the written approval of the instructor of the new meeting section, or the administrative staff person responsible for student academic advising in the academic unit offering the course. Changes must be recorded at the Registrar's Office through ACORN (until the last day to add the course) and on a section change request form at the Registrar's Office thereafter.

Note: For some course sections, changes are not permitted on ACORN - these are listed in the Course Timetable.

Dropping a Course:

1. Students wanting to drop a course should pay attention to two deadlines in the Dates and Deadlines:
   • If students withdraw from a course by the last date to drop courses without academic penalty, no record of registration is shown on the student's transcript.
   • If students withdraw from a course by the late withdrawal date, the course remains on the student's record with a grade of LWD indicating late withdrawal. Students are permitted to withdraw late from a maximum of 3.0 credits during their studies within UTSC, FAS or UTM.

2. If students cease to complete course requirements but do not withdraw officially by the later deadline, a grade based on the marks awarded (including a zero for any incomplete work) will be recorded.

3. Students are not permitted to cancel or withdraw from a course in which an allegation of academic misconduct is pending, from the time of the alleged offence until the final disposition of the accusation. Such courses are designated GWR until the allegation is resolved.

Students who drop all their current courses and do not intend to enrol in any other course in that session (whether Summer, Fall or Winter) are deemed as having withdrawn from the session, and must cancel their registration through ACORN. Students dropping all their courses in a session may wish to speak to an academic advisor from the Academic Advising & Career Centre or Registrar's Office staff about the academic and financial consequences of withdrawal.

6C.8 Re-enrolling UTSC Students

Students previously registered at UTSC who wish to return after suspension or an absence of three or more consecutive sessions (at least 12 months) must submit an online "Application To Re-Enrol" to the Registrar's Office. Degree students who studied elsewhere during their absence from UTSC must report the attendance in the application, and should apply to re-enrol well before the final deadline to ensure there is sufficient time to review official transcripts from the other institution(s).
Enrolment in most courses is on a first-come, first-served basis. In order to have the application processed in time to take advantage of the wider availability of courses, students are strongly advised to submit the application to re-enrol by the dates listed below:

- Mid March for the Summer Session
- Mid June for both the Fall and Winter Sessions
- Early October for the Winter Session

Late applications to re-enrol will be considered ONLY if received before classes begin in the session. Late fees may apply. For further information on re-enrolment, visit the Registrar’s Office website.

6C.9 Courses in Other Divisions or Faculties

Students are not permitted to register for courses in divisions or faculties other than the FAS and UTM unless they have received permission by petition or unless the courses are required by their Specialist or Major program.

Undergraduate Courses at FAS and UTM:

UTSC students are permitted to take up to 5.0 credits in courses offered by FAS or UTM, however:

- No more than 1.0 of a student’s first 4.0 full credits as a UTSC student may be taken on another campus, and students who plan on taking fewer than 1.5 credits in their first session as a UTSC student must enrol in UTSC courses only; Students may be withdrawn from courses after classes have started if their registration violates these rules.
- If a student takes a course offered by FAS or UTM and fails it, the course will not be counted towards the 5.0 credits.
- Courses taken at either FAS or UTM that are designated as “extra” (EXT) will not be counted towards the 5.0 credits.
- Courses taken at either FAS or UTM that are designated as CR/NCR are counted towards the 5.0 credits if the student achieves a grade of CR, but are not counted towards the 5.0 credits if they are assessed as NCR.

Note: The FAS and UTM Calendars do not usually list UTSC courses as exclusions. Students taking such courses must check the UTSC Calendar for possible exclusions. Students who are in any doubt about whether or not an exclusion exists, whether a course can be used to meet a prerequisite for another course, or can be applied to a program requirement should consult with their Program Supervisor/Director.
7. Understanding Marks and Grades

7.1 Standing In a Course

As of 1998, students are assigned a grade in each course as follows (grades earned prior to September 1998 remain as originally reported).

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Point Value</th>
<th>Percentage Equivalent</th>
<th>Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>A+</td>
<td>4.0</td>
<td>90-100</td>
<td>Excellent</td>
</tr>
<tr>
<td>A</td>
<td>4.0</td>
<td>85-89</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.7</td>
<td>80-84</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>3.3</td>
<td>77-79</td>
<td>Good</td>
</tr>
<tr>
<td>B</td>
<td>3.0</td>
<td>73-76</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.7</td>
<td>70-72</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>2.3</td>
<td>67-69</td>
<td>Adequate</td>
</tr>
<tr>
<td>C</td>
<td>2.0</td>
<td>63-66</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>1.7</td>
<td>60-62</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>1.3</td>
<td>57-59</td>
<td>Marginal</td>
</tr>
<tr>
<td>D</td>
<td>1.0</td>
<td>53-56</td>
<td></td>
</tr>
<tr>
<td>D-</td>
<td>0.7</td>
<td>50-52</td>
<td></td>
</tr>
<tr>
<td>F*</td>
<td>0.0</td>
<td>0-49</td>
<td></td>
</tr>
<tr>
<td>CR</td>
<td>No Value</td>
<td>No Value</td>
<td>Credit in a Credit/No Credit course</td>
</tr>
<tr>
<td>NCR</td>
<td>No Value</td>
<td>No Value</td>
<td>No credit in a Credit/No Credit course</td>
</tr>
<tr>
<td>NC%</td>
<td>0.0</td>
<td>No Value</td>
<td>No credit in a Credit/No Credit course</td>
</tr>
</tbody>
</table>

*F = Fail

Note:
Grades of ‘F’, ‘NCR’, and ‘NC%’ are failing grades, yielding no standing in a course and no degree credit. Students are cautioned that a numerical score on an assignment is not deemed to be automatically equivalent to the corresponding letter grade.

7.2 Credit/ No Credit

UTSC degree students may select up to 2.0 full credit of their degree credits to be assessed on a Credit/No Credit basis. Courses intended for individual study, such as supervised reading courses, are not eligible for Credit/No Credit assessment. Students must choose this mode of assessment via ACORN no later than the last day to drop courses without academic penalty. Once the deadline has passed, students may not under any circumstances reverse this decision.

To achieve a status of CR (Credit), a student must earn a final grade of at least 50%. Grades below that will be assessed as NCR (No Credit). Courses with a final status of CR will count as degree credits but will have no effect on the student's GPA. They may count as breadth requirements and degree credits, but cannot be used to satisfy program requirements.

Courses with a final status of NCR will not count as degree credits but will not count as failures, and will also not be included in the GPA calculation. If a student commits an academic offence in a Credit/No Credit designated course, the CR/NCR designation will be removed and a grade will appear on the student's record.

The CR/NCR option is open only to degree students. Once students have graduated, they may not complete courses on a CR/NCR basis, even if they enrolled in the course before their graduation; for example, a student graduating in June, selecting a Summer course as CR/NCR. Or a student graduating in November, selecting a Fall or Winter course as CR/NCR, will have the CR/NCR designation removed and a percentage grade will appear on the student's record.

Certain courses, including some music courses, are graded on a CR/NC% basis. In these courses, to achieve a passing grade a student must receive a final mark of at least 50%. This will be designated as CR on a transcript and will not be included in the grade point average. A failing grade (below 50%) will be designated on the transcript as NC%, and the course will be included as an “F” (value zero) in the grade point average.

In courses graded on a CR/NC% basis, students may opt for a normal graded assessment with specific grades assigned. Students must choose this mode of assessment no later than the last day to enrol in the relevant course. Requests for this type of assessment are made through the course instructor offering the course. Once the deadline has passed, students may not under any circumstances reverse this decision.
### 7.3 Other Course Grade Notations

The following notations have no grade point value, do not yield credit, and are not included in the calculation of CGPA:

<table>
<thead>
<tr>
<th>Notation</th>
<th>Description</th>
</tr>
</thead>
</table>
| AEG      | Aegrotat standing: grade is assigned on the basis of work completed where medical or similar evidence demonstrates that a student is unable to complete course requirements within a reasonable time, and where a student has already completed at least 60% of the course with a grade of C minus or better.  
  - Students must petition for the assignment of an AEG grade to a course.  
  - Where a student is assigned AEG standing, the course counts as a credit but is not included in the CGPA.  
  - Students who require a letter grade will be expected to complete the work of the course. |
| LWD      | Late withdrawal: withdrawal after the last day to drop courses without academic penalty, but before the examination period begins. |
| WDR      | Withdrawal without academic penalty after the relevant deadline.  
  - Students must petition for the assignment of a WDR grade to a course. |
| GWR      | Grade withheld pending the review of an alleged academic offence. |
| NGA      | No grade available. |
| SDF      | Standing is deferred on the basis of incomplete course work because of medical or similar reasons. |
| IPR      | Course is in progress. |

### 7.4 Grade Reports

Grade reports are not issued to students. Instead, final grades, grade point averages and academic standing are made available through ACORN. Grades are available as soon as they have been submitted and approved. CGPAs for individual students are available shortly after the student's last grade is approved, and academic standing is available in September, January and May. Students who are on academic probation, suspended, or refused further registration, will receive an email regarding their academic status.

### 7.5 Grade Point Averages

1. A grade point average (GPA) is calculated as follows: the grade points earned in each full (1.0) credit course and one-half the grade points earned in each half- (0.5) credit course are added together and this total is divided by the number of full credits taken.

2. A sessional grade point average is calculated on the basis of all courses taken in a given session (Summer, Fall, Winter) having a grade point value.

3. A cumulative grade point average (CGPA) is calculated on the basis of all courses taken having a grade point value.

4. An annual grade point average is calculated on the basis of all courses taken in the Fall and Winter Sessions having a grade point value. This is provided for information only and is not used for the assessment of academic status.

5. Sessional and cumulative grade point averages (CGPA) are calculated at the end of each session and included on the student's academic record and transcript.

6. Courses taken for credit by degree students while registered at UTSC, FAS or UTM are normally included in UTSC grade point averages. Courses taken while registered at other institutions or other divisions or faculties of UT are not normally included in grade point averages.

### 7.6 Determination of Academic Status

The following rules apply to all students except visiting students whose academic status is not assessed or as indicated in "Determination of Academic status for Students Re-enrolling at the University of Toronto Scarborough," "Determination of Academic Status for Students in the Certificate Program in Business," and "Determination of Academic Status for Students Admitted on Probation."

Academic status is determined as follows for students who have attempted at least 3.0 credits since beginning their studies at UTSC, or another Arts and Science division of the University. It is determined at the end of each academic session (Summer, Fall and Winter):

1. In Good Standing
   Students who maintain a cumulative grade point average of 1.60 or better are said to be "in good standing".
2. On Probation
• Students who have attempted at least 3.0 credits and have a CGPA of less than 1.60 are placed on probation.
• Students returning from suspension (see item 5 below and any provision in previous rules) shall be placed on probation again.

3. Probation Cleared
Students may clear probation by achieving a CGPA of 1.60 or better. Students who have cleared probation shall be said to be again “in good standing”.

4. Probation Continued
Students may continue on probation by achieving a sessional grade point average of at least 1.60 in each session until such time as they return to good standing.

5. Suspended or Refused Further Registration
Students on probation who, by the end of a given session, have not achieved a sessional grade point average of at least 1.60 shall be liable for suspension or refusal of further registration as follows, regardless of the number of credits taken in the session:
• Students who have incurred no previous suspension will be suspended for four months (one session);
• Students who have previously incurred a four-month (one-session) suspension will be suspended for twelve months (three sessions);
• Students who have previously incurred a twelve-month (three-session) suspension will be suspended for thirty-six months (nine sessions); and
• Students who have previously incurred a thirty-six month (nine-session) suspension will be refused further registration.

Determination of Academic Status for Re-enrolling Students at UTSC:
Students who have studied at other institutions since their last registration at UTSC must arrange for official transcripts of other post-secondary studies to be sent to UTSC upon application for re-enrolment. Performance in courses taken elsewhere (including other divisions of UT) will be taken into consideration in determining whether to approve the application, and whether to make any change in the student’s academic status. Students who study at other universities without prior permission from UTSC are unlikely to be eligible for transfer credit for such study.

Determination of Academic Status for Students in the Certificate program in Business:
Academic status is determined at the end of each session as follows for all students who have completed at least two full credits since beginning their studies:

1. In good standing
Students who maintain a CGPA of at least 2.00 are said to be in good standing.

2. Refused further registration
Students who, at the end of a given session, have not achieved a CGPA of at least 2.00 or better are refused further registration in the Certificate program.

Determination of Academic Status for Students Admitted On Probation:
Candidates who fail to satisfy normal admission requirements, but successfully appeal for special consideration may be admitted on probation.
• The academic requirements that such students must meet are the same as those required of students who encounter academic difficulties while registered in the university, including course load restrictions.
• The academic status will remain “On Probation” until the student achieves a CGPA of 1.60 or higher.
• Students on probation who fail to achieve a sessional grade point average of 1.60 or higher will be subject to academic suspension.
• Students who are admitted on probation are urged to seek advice on course selection and study methods from the Academic Advising & Career Centre.

7.7 Academic Transcripts
The academic transcript is the official statement of the academic record of each student.

Contents:
The transcript records the following information:
1. Student’s full name and university student number.
2. Student’s academic record, listed chronologically by session, including:
   • Each course attempted, its abbreviated title, and its grade including courses from which late withdrawal has been approved;
   • The sessional grade point average;
   • The CGPA at the end of the session;
   • The annual grade point average;
   • Completion of a Co-operative program;
   • Completion of degree and program requirements, and date of conferral of the degree; and
   • Graduation with high distinction or with distinction.
3. The following kinds of special consideration granted by petition:
   • WDR - withdrawal without academic penalty from a course after the relevant deadline;
Deferral of suspension;
Award of aegrotat standing; and
Other consideration deemed to have altered the academic record.

Ordering Copies:
Students can obtain an unofficial copy of their academic history at no cost directly from ACORN. Official transcripts can be ordered for a fee through ACORN.
8.1 Writing at UTSC

Effective writing is foundational to the academic experience. Good thinking demands good writing; good writing reflects both sound learning and insightful teaching. Good writing is not only an index to intellectual clarity, but the basis of meaningful communication.

UTSC aims to assist its students to achieve proficiency in writing, irrespective of their program. Students will be expected to learn how to frame an argument and support it, to research, critique and integrate materials from a variety of sources, and to present written work that is both cogent and precise. Individual disciplines may encourage their students to hone skills that are particular to their specific areas of study, but all are expected to help their students generate ideas, analyse their sources, and synthesize and interpret information in coherent forms of written expression. Some disciplines have identified writing-intensive courses which aim expressly at enhancing a student’s writing ability. Others have adopted their own innovative ways of assisting students to develop and improve their writing skills. The Centre for Teaching and Learning (CTL) offers courses in academic writing for English Language Learners.

In addition to courses, UTSC offers extensive support for student writers. The UTSC Writing Centre offers individual feedback on writing in progress, as well as opportunities for students to discuss their work with peers in small and large groups. The English Language Development Centre offers specialized programs to non-native speakers of English, allowing them to assess their competence level and supporting them in building both oral and written communication skills. TA and Graduate Support offers group and individual support for UTSC graduate students.

These and other resources are in place to help ensure that all students, regardless of the point from which they begin, achieve a standard of written expression that is consistent with the rigour of their programs of study.

8.2 Academic Resources and Student Support Services

Students at the University of Toronto Scarborough have access to a large number of excellent academic resources and support services. For more information, including services offered, operating hours, and contact information please visit the websites listed below:

**Academic Resources:**

Academic Advising & Career Centre
The Academic Advising & Career Centre (AA&CC) integrates developmental advising, learning skills, career counseling and employment coaching through individual appointments, workshops, experimental programming, events and a range of online resources.

AccessAbility Services
AccessAbility Services provides services and academic accommodations to students who have a documented learning, physical, sensory, mental health disability or medical condition. Services cater to the individual.

Library
The UTSC Library is part of vast resource of scholarly materials including print volumes, print journal subscriptions, sound collections, videos and films, serial collections, electronic journals, and electronic books. It also offers access to over 200 networked computer stations, individual and group study space, and extensive reference and research support. Students can receive research assistance in person, by telephone, through email and through the online Ask a Librarian chat service.

Registrar’s Office
- Admission’s & Student Recruitment
- Financial Aid
- Scholarships & Awards
- Registrial Services

Centre for Teaching and Learning
The Centre for Teaching and Learning (CTL) offers an extensive range of programming, in support of student learning, including the English Language Development Centre, Math and Stats Learning Centre, Presentation Skills support, and TA support.

**Other Student Services:**

Athletics and Recreation
Community Police
Equity and Diversity Office
Health & Wellness Centre
Information and Instructional Technology Services
International Students – Department of Student Life
N’sheemaehn Child Care Centre
Scarborough Campus Students’ Union (SCSU)
Sexual Harassment Office (University of Toronto)
Student Affairs
Student Housing and Residence Life
Student Life
Combined Degree Programs

UTSC offers a number of combined degree programs (CDPs). A CDP allows students to be registered in two degree programs (one undergraduate and one graduate) at the same time, creating one approved program combination. Students complete the requirements for both degrees in a manner that provides a benefit that would not be available to students registering in each degree program separately.

Combined Degree Programs Programs

COMBINED DEGREE PROGRAMS, HONOURS BACHELOR OF SCIENCE OR HONOURS BACHELOR OF ARTS/ MASTER OF TEACHING

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in one of 22 specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options are:

- Biological Chemistry (Specialist), Honours Bachelor of Science/ Master of Teaching
- Biological Chemistry (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Biochemistry (Major), Honours Bachelor of Science/ Master of Teaching
- Biochemistry (Major Co-op), Honours Bachelor of Science/ Master of Teaching
- Chemistry (Specialist), Honours Bachelor of Science/ Master of Teaching
- Chemistry (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Chemistry (Major), Honours Bachelor of Science/ Master of Teaching
- Chemistry (Major Co-op), Honours Bachelor of Science/ Master of Teaching
- Environmental Chemistry (Specialist), Honours Bachelor of Science/ Master of Teaching
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Environmental Physics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Major), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Major Co-op), Honours Bachelor of Science/ Master of Teaching
- French (Specialist), Honours Bachelor of Arts/ Master of Teaching
- French (Specialist Co-op), Honours Bachelor of Arts/ Master of Teaching
- French (Major), Honours Bachelor of Arts/ Master of Teaching
- French (Major Co-op), Honours Bachelor of Arts/ Master of Teaching

UTSC Programs Fit With OISE MT Teaching Subjects:

<table>
<thead>
<tr>
<th>UTSC Program</th>
<th>MT Teaching Subjects - Required Number of Courses/Credits Completed</th>
</tr>
</thead>
</table>
| Specialist/Specialist Co-op in Biological Chemistry | Science - Chemistry  
Science - Biology  
Science - General |
| Major/Major Co-op in Biochemistry                  | Science - Biology                                                 |
| Specialist/Specialist Co-op in Chemistry           | Science - Chemistry                                                |
| Major/Major Co-op in Chemistry                     | Science - Chemistry                                                |
| Specialist/Specialist Co-op in Environmental Chemistry | Science - Chemistry                                             |
| Specialist/Specialist Co-op in Environmental Physics | Science - Physics                                               |
| Specialist in Physics and Astrophysics             | Science - Physics                                                 |
| Specialist in Physical and Mathematical Sciences    | Science - Physics                                                 |
| Specialist/Specialist Co-op in Mathematics         | Mathematics                                                       |
| Major/Major Co-op in Mathematics                   | Mathematics                                                       |
Combined Degree Programs

<table>
<thead>
<tr>
<th>Specialist/Specialist Co-op in French</th>
<th>French (Second Language)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Major/Major Co-op in French</td>
<td>French (Second Language)</td>
</tr>
</tbody>
</table>

Minimum Admission Requirements:

- Applicants must apply to, and be accepted by, at least one of the above listed undergraduate programs at UTSC and also the OISE Master of Teaching program. Applicants must satisfy the admission requirements of each program.
- Students must be enrolled full-time and be in Good Standing in their chosen undergraduate program with a B+ average (3.3) in Year 2 of their program to be eligible for admission into the MT and the Combined Degree Program; students must normally complete a minimum of 5.0 credits over the three terms (Fall, Winter and Summer) during each year of study (where necessary, exceptions will be made for students in Co-op programs).
- Qualified undergraduate students in Year 3 of their chosen undergraduate program(s) may apply to the Combined Degree Program; those accepted to the CDP will receive a conditional offer to of admission to the graduate program.
- Admission into the MT program will have the following conditions:
  - Students must maintain a B+ average (3.3) or higher in their final year of study, or over upper level (C- and D-level) courses;
  - Students must complete the requirements of their chosen undergraduate program;
  - Students must demonstrate conferral of the BSc/BA degree;
  - Students must provide at least two letters of reference (see: http://www.oise.utoronto.ca/mt/Home.html);
  - Students must complete the prerequisites for two teaching subjects irrespective of the grade level they ultimately intend to teach.
  - Students are required to complete a minimum of 6.0 credits in their primary teaching subject, and a minimum of 3.0 credits in their secondary teaching subject (some secondary teaching subjects require more than 3.0 credits; students should consult the OISE website for more information);
  - Students must have completed 3.0 credits in their primary teaching subject, and 1.5 credits (or more where applicable) for their secondary teaching subject by the time they are conditionally admitted to the MT program (i.e., by the second term of Year 3 of the undergraduate program);
  - The table below identifies the primary teaching subject each UTSC program fits into; students may need to complete additional courses to fulfill the minimum 3.0 credits required for the secondary teaching subject. Students are advised to consult often with the academic supervisor of their chosen undergraduate program to ensure they fulfill all the necessary requirements of the Combined Degree Program;
  - Meet other qualifications as specified by the MT program:
    - 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 B+ or better in the final year. Note: all students admitted to the MT via the Combined Degree Program must have a higher average grade requirement than that required for admission to the MT alone.
    - In their Statement of Intent, applicants should indicate their preferred concentration (i.e., Primary/ Junior, Junior/Intermediate, or Intermediate/Senior) and describe three significant teaching and/or teaching-related experiences that they have had, especially with groups of children. With reference to these experiences, applicants should identify insights gained about teaching and learning, and explain how, based on these insights, they might contribute to the education of students in today’s schools. Included in their 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.
    - A police record check is required in a practicum setting in both Year 1 and 2 of the program.

Program Requirements:

- Students must complete the full academic program requirements of their undergraduate program(s) and degree, as well as those of the Master of Teaching;
- Students must be registered full-time, and carry a full course load in each year of study, throughout their chosen undergraduate program;
- Students who are admitted to the CDP receive conditional offers of admission to the MT during Year 3 of their chosen undergraduate program, and will commence the MT during Year 4 when they are enrolled in the 1.0 FCE graduate courses;
- In Year 4 of undergraduate studies, combined degree program students must take 1.0 credit (FCEs) in graduate courses as designated by the OISE MT program. The 1.0 graduate FCE will count both towards the undergraduate degree and the MT. A Combined Degree Program student is graded as a graduate student and required to meet graduate expectations in the graduate courses.

The path to completion is:

- Year 1: BSc requirements
- Year 2: BSc requirements
- Year 3: BSc requirements
- Year 4: BSc requirements PLUS 1.0 credit (FCE) in graduate courses
- Year 5: MT first year requirements
- Year 6: MT second year requirements

Program Length: 6 years full-timeTime Limit: BSc/BA + 3 years MT

Contact Information:

University of Toronto Scarborough:

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For programs in Biological Chemistry, Biochemistry, Chemistry, Environmental Chemistry, Environmental Physics, Physics and Astrophysics, and Physical and Mathematical Sciences, contact the Department of Physical and Environmental Sciences.

For programs in Mathematics contact the Department of Computer and Mathematical Sciences.

For programs in French, contact the Centre for French and Linguistics.

Ontario Institute for Studies in Education:
Department of Curriculum Teaching and Learning

COMBINED DEGREE PROGRAMS, ENVIRONMENTAL SCIENCE (SPECIALIST), HONOURS BACHELOR OF SCIENCE/ MASTER OF ENGINEERING

For information contact: Mandy Meriano (416-208-2775)
Email: mmeriano@utsc.utoronto.ca

The Combined Degree Programs in Environmental Science (BSc) and MEng allows exceptional students who are registered in one of the UTSC Specialist or Specialist Co-op programs in Environmental Science (Environmental Biology, Environmental Chemistry, Environmental Geoscience, or Environmental Physics) to apply during their third year, and be considered, for admission to the Faculty of Engineering & Applied Chemistry MEng programs in either Chemical Engineering & Applied Chemistry or Civil Engineering.

Combined Degree Programs options are:
- Environmental Biology (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Biology (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Geoscience (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Physics (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering

Minimum Admission Requirements:
- Each student in the Combined Program shall meet the respective admission requirements of each program.
- To be eligible for admission into the MEng and the Combined Program, students must be enrolled, and in good standing in one of the BSc Specialist programs in Environmental Science (Environmental Biology, Environmental Chemistry, Environmental Geoscience, or Environmental Physics) with a CGPA of 3.3 or higher in Year 2. In addition, students are expected to carry a full course load of 5.0 FCEs each year.
- Admission into the MEng program is conditional upon students maintaining a CGPA of at least 3.3 in Years 3 and Year 4 of the BSc and completing the BSc.
- Applications will be accepted in the third year of full-time registration in the BSc program.

Program Requirements:
- The full academic program requirements of both programs (BSc/MEng) will be met by students in the Combined Degree Programs.
- Students must be registered as full-time throughout the undergraduate program.
- Complete two prescribed undergraduate engineering half courses (1.0 FCE) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 FCEs) required for the Master of Engineering program.
- Up to 1.0 credit (FCE) of the required Master’s courses normally are taken during Year 4 and count towards both the BSc degree requirements and the MEng degree requirements.
- Students who receive conditional offers of admission during Year 3 of the Bachelor’s program and complete the Bachelor’s program requirements in Year 4 will commence the MEng during Year 5.
- Eligible students may begin the Master’s program in the summer immediately following completion of the fourth year of the Bachelor’s program.

The path to completion is:
- Year 1: BSc requirements
- Year 2: BSc requirements
- Year 3: BSc requirements
- Year 4: BSc requirements (including two FASE undergraduate half courses [to be determined] and up to 1.0 credit of MEng requirements)
- Year 5: MEng remaining requirements (studies may commence in summer between years 4 and 5)

Normal Program Length: 5 years full-time
Time Limit: BSc + 3 years MEng
The Combined Degree Programs in Mental Health Studies (BSc) and MSW are ideal for students pursuing a career as a social worker. These accelerated programs provide a rich intellectual pathway for exceptional undergraduate students by providing access to social work research before the completion of the undergraduate degree, and offer students 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 (FIFSW) co-supervisor. The Combined Degree Programs allow well-qualified students to apply during their third year, and be considered, for admission to the FIFSW Master's program in Social Work.

Combined Degree Programs options are:

- Mental Health Studies (Specialist), Honours Bachelor of Science/ Master of Social Work
- Mental Health Studies (Specialist Co-op), Honours Bachelor of Science/ Master of Social Work

Minimum Admission Requirements:

- Applicants must apply to, and be accepted by, either the Specialist program in Mental Health Studies (BSc) or the Specialist Co-operative program in Mental Health Studies (BSc) at UTSC and also the MSW Two-Year program in the FIFSW. Applicants must satisfy the admission requirements of each program. Undergraduate students apply to the Master's program in the third year of full-time registration in the BSc program.
- Students must be enrolled full-time and be in Good Standing in either the Specialist program in Mental Health Studies (BSc) or Specialist Co-operative program in Mental Health Studies (BSc) with a B+ average (CGPA of 3.3) or higher in Year 2 to be eligible for admission into the MSW and the Combined Degree Program; students are expected to carry a full course load of 5.0 full-course equivalents (FCEs) each year.
- Qualified students in Year 3 of their chosen BSc program may apply to the MSW program; those accepted will receive a conditional offer to commence the MSW program when their chosen BSc program requirements have been completed.
- Admission into the MSW program will have three conditions:
  - Students must maintain a B+ average (CGPA of 3.3) or higher in Year 3 and Year 4 of their chosen BSc program;
  - Students must complete the requirements of their chosen BSc program; and
  - Students must demonstrate conferral of the BSc degree.

Program Requirements:

- Students must complete the full academic program requirements of either the Specialist program in Mental Health Studies (BSc) or the Specialist Co-operative program in Mental Health Studies (BSc) as well as the MSW Two-Year program.
- Students must be registered full-time, enrolling in 5.0 full-course equivalents (FCEs) each year, throughout their chosen BSc program.
- Students who receive conditional offers of admission to the MSW during Year 3 of their chosen BSc program, and complete their BSc program requirements in Year 4 will commence the MSW during Year 5 of the Combined Degree Program.
- In Year 4 of the BSc studies, students must take the D-level research course, PSYD98Y3 (Thesis in Psychology), under the supervision of a UTSC Psychology faculty member, and in consultation with a FIFSW faculty member.
- In Year 4 of the BSc studies, students must take the D-level course, PSYD37H3 (The Social Context of Mental Health and Illness), which will be taught by a FIFSW faculty member.
- MSW students in the Health and Mental Health field who completed the Specialist Co-operative program in Mental Health Studies (BSc) are exempt from SWK4604 (Social Work Practice in Mental Health Services) and will replace it with a graduate elective.

The path to completion is:

- Year 1: BSc requirements
- Year 2: BSc requirements
- Year 3: BSc requirements
- Year 4: BSc requirements PLUS [PSYD98Y3 and PSYD37H3]
- Year 5: MSW first year requirements
- Year 6: MSW second year requirements

Normal Program Length: 6 years full-time
Time Limit: BSc + 3 years MSW
African Studies

Faculty List

- A. Hachimi, M.A. (Hawaii), Ph.D. (Hawaii), Assistant Professor
- T. Kepe, M.Sc. (Guelph), Ph.D. (Univ. Western Cape, South Africa), Associate Professor
- N. Kortenaar, M.A., Ph.D. (Toronto), Professor
- S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor

African Studies aims to widen students’ knowledge and experience of the second largest and, in some respects, most complex continent, its peoples and their diasporas. It encourages students to engage with and explore ideas and material concerning African histories, cultures, economies, political systems, artistic expression, and systems of belief. In many program courses Africa, its peoples and their cultures are situated in relation to the wider world. The study of historical interconnections with Europe, Asia, and the Americas highlights Africa’s central role in world history and processes of globalization. Throughout the program students explore the exciting recent developments in our understanding of African civilizations, thought, political and religious systems, as well as histories of slavery, colonialism, racism, and nationalism. A number of courses emphasize African, Caribbean, and African-American cultural and artistic responses to modernity, racism, and liberation, as well as struggles for security and development. The program as a whole challenges students to think in new innovative directions about Africa across the disciplines and to reject preconceived myths and stereotypes. Students with an African Studies minor will gain strong skills in critical analysis, research, writing, and communications. The program aims to go further to encourage an awareness of the relationships between the production and application of knowledge and the wider forces of global change, as well as a love of intellectual challenges. Students who intend to complete the African Studies program should include AFSA01H3 in their first year course selection. Certain elective courses (e.g. ENGD08H3, ENGC73H3, (ENGD63H3)) have non-African Studies prerequisites. This may require that you take more than 4.0 credits to complete the program. If you are interested in taking one of them, check the prerequisites carefully before deciding what courses to select.

For updates and detailed information regarding African Studies please visit the Historical and Cultural Studies website at: www.utsc.utoronto.ca/~hcs/

African Studies Programs

MINOR PROGRAM IN AFRICAN STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: afs-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete 4.0 credits, 1.0 credit of which must be at the C- or D-level.

1. AFSA01H3 Africa in the World: An Introduction
   AFBS01H3 African Worldviews

2. 1.0 credit from the following (students should check course descriptions for prerequisites):
   AFSA03H3 Experiencing Development in Africa
   AFSB05H3/ANTB05H3 Culture and Society in Africa
   AFSB50H3 Africa in the Era of the Slave Trade
   AFSB51H3 Twentieth Century Africa
   AFSC30H3 Language and Society in the Arab World
   AFSC52H3 Ethiopia: Seeing History
   AFSC55H3 War and Society in Modern Africa
   AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation

3. 2.0 credits from the list below (students should check course descriptions for prerequisites):
   AFSB50H3 Africa in the Era of the Slave Trade (if not used in Requirement 2)
   AFSB51H3 Twentieth Century Africa (if not used in Requirement 2)
   AFSC30H3 Language and Society in the Arab World (if not used in Requirement 2)
   AFSC52H3/HISD52H3 Ethiopia: Seeing History (if not used in Requirement 2)
   AFSC55H3/HISD55H3 War and Society in Modern Africa (if not used in Requirement 2)
   AFSD51H3/HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation (if not used in Requirement 2)
   AFSB05H3/ANTB05H3 Culture and Society in Africa (if not used in Requirement 2)
   (ANTC06H3) African Cultures and Societies II: Case Studies
   CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt
   ENGB17H3 Contemporary Literature from the Caribbean
   ENGC51H3 Contemporary Arab Women Writers
   ENGC72H3 Contemporary Literature from Africa
   ENGD13H3 Rap Poetics
   ENGD08H3 Topics in African Literature
   (ENGD61H3) James Baldwin, the African American Experience, and the Liberal Imagination

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African Studies Courses

AFSA01H3  Africa in the World: An Introduction
An interdisciplinary introduction to the history and development of African Studies with Africa's place in the wider world a key theme. Students critically engage with African and diasporic histories, cultures, social structures, economies, and belief systems. Course material is drawn from Archaeology, History, Anthropology, Geography, Literatures, the Arts and Women's Studies.
Exclusion: NEW150Y
Breadth Requirement: History, Philosophy & Cultural Studies

AFSA03H3  Experiencing Development in Africa
This experiential learning course allows students to experience first hand the realities, challenges, and opportunities of working with development organizations in Africa. The goal is to allow students to actively engage in research, decision-making, problem solving, partnership building, and fundraising, processes that are the key elements of development work.
Same as IDSA02H3
Prerequisite: AFSA01H3 or IDSA01H3
Exclusion: IDSA02H3
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

AFSB01H3  African Worldviews
An interdisciplinary introduction to African and African diasporic religions, philosophies, and oral and written cultures.
Exclusion: (AFSA02H3)
Recommended Preparation: AFSA01H3
Breadth Requirement: History, Philosophy & Cultural Studies

AFSB05H3  Culture and Society in Africa
An overview of the range and diversity of African social institutions, religious beliefs and ritual, kinship, political and economic organization, pre-colonial, colonial and post-colonial experience.
Same as ANTB05H3
Prerequisite: AFSA01H3 or ANTA02H3
Exclusion: ANTB05H3
Breadth Requirement: Social & Behavioural Sciences

AFSB50H3  Africa in the Era of the Slave Trade
An introduction to the history of Sub-Saharan Africa, from the era of the slave trade to the colonial conquests. Throughout, the capacity of Africans to overcome major problems will be stressed. Themes include slavery and the slave trade; pre-colonial states and societies; economic and labour systems; and religious change.
Same as HISB50H3
Prerequisite: Any modern history course, or AFSA01H3
Exclusion: HISB50H3, (HISC50H3), HIS295H, HIS396H, (HIS396Y)
Breadth Requirement: History, Philosophy & Cultural Studies

AFSB51H3  Twentieth Century Africa
Modern Sub-Saharan Africa, from the colonial conquests to the post-colonial era of structural adjustment. The emphasis is on both structure and agency in a hostile world. Themes include conquest and resistance; colonial economies; gender and ethnicity; religious and political movements; development and underdevelopment, post-colonial conflicts, as well as cultural achievements.
Same as HISB51H3
Exclusion: HISB51H3, (HISC51H3), HIS396H, (HIS396Y)
Recommended Preparation: AFSA01H3 or AFSB50H3 or HISB50H3 strongly recommended.
Breadth Requirement: History, Philosophy & Cultural Studies

AFSC30H3  Language and Society in the Arab World
An examination of the relationship between language, society and identity in the Arab world, with special emphasis on North Africa. Topics include: colonial and postcolonial periods; the role of Arabic in pan-Arab identity; multilingualism, class and education; ideologies of gender and language; and ethno-linguistic revitalization among Berbers in North Africa.
Same as HISC96H3
Prerequisite: Any B-level course in African Studies, Linguistics, History, or Women's and Gender Studies
Exclusion: HISC96H3
Enrolment Limits: 50
Breadth Requirement: Arts, Literature & Language
AFSC52H3 Ethiopia: Seeing History
This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments.
Same as HISC52H3 and VPHC52H3
Prerequisite: [1.0 credit in History] or [VPHA46H3 and ACMB01H3 and an additional 1.0 credit in VPH courses]
Exclusion: HISC52H3, VPHC52H3
Breadth Requirement: History, Philosophy & Cultural Studies

AFSC55H3 War and Society in Modern Africa
Conflict and social change in Africa from the slave trade to contemporary times. Topics include the politics of resistance, women and war, repressive and weak states, the Cold War, guerrilla movements, resource predation. Case studies of anti-colonial rebellions, liberation wars, and civil conflicts will be chosen from various regions.
Same as HISC55H3
Africa and Asia Area
Prerequisite: AFSB50H3/HISB50H3 or AFSB51H3/HISB51H3 or (HISC50H3) or (HISC51H3)
Exclusion: HISC55H3
Breadth Requirement: History, Philosophy & Cultural Studies

AFSD07H3 Extractive Industries in Africa
This course examines resource extraction in African history. We examine global trade networks in precolonial Africa, and the transformations brought by colonial extractive economies. Case studies, from diamonds to uranium, demonstrate how the resource curse has affected states and economies, especially in the postcolonial period.
Same as IDSD07H3
Prerequisite: 8.0 credits including [AFSA01H3 or IDSA01H3] and [AFSA03H3/IDSA02H3] and [1.0 credit at the B-level in AFS or IDS courses]
Exclusion: IDSD07H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation
A seminar study of southern African history from 1900 to the present. Students will consider industrialization in South Africa, segregation, apartheid, colonial rule, liberation movements, and the impact of the Cold War. Historiography and questions of race, class and gender will be important. Extensive reading and student presentations are required.
Same as HISD51H3
Africa and Asia Area
Prerequisite: 8.0 credits including AFSB51H3/HISB51H3 or HISD50H3
Exclusion: HISD51H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
Anthropology

Faculty List

- S. Bamford, B.A. (Toronto), M.A. (McMaster), M.A., Ph.D. (Virginia), Associate Professor
- F.D. Burton, B.Sc., M.A. (NYU), Ph.D. (CUNY), Professor Emerita
- M. Cummings, B.A. (York), M.A. (Dalhousie), Ph.D. (York), Assistant Professor, Teaching Stream
- B. Dahl, B.A. (California, San Diego), M.A., Ph.D. (Chicago), Assistant Professor
- G. Daswani, B.Sc. (National University of Singapore), M.Sc., Ph.D. (London School of Economics), Associate Professor
- G. Dewar, B.Sc., MA. (Toronto), Ph.D. (Cape Town), Assistant Professor
- K. Kilroy-Marac, B.A. (Wisconsin-Madison), M.A., M. Phil., Ph.D. (Columbia), Assistant Professor
- C. Krupa, B.A., M.A. (Toronto), Ph.D. (California, Davis), Assistant Professor
- M. Lambek, B.A. (McGill), M.A., Ph.D. (Michigan), F.R.S.C., Professor
- M. Latta, B.A. (Kansas), M.A., Ph.D. (Toronto), Associate Professor Emerita
- L. Mortensen, B.A. (Cornell), M.A., Ph.D. (Indiana), Assistant Professor
- A. Paz, B.A. (Queen's), M.A. (Tel Aviv), M.A., Ph.D. (Chicago), Assistant Professor
- L. Sawchuk, B.A., M.A. (Manitoba), Ph.D. (Toronto), Associate Professor
- M. Schillaci, B.A. (New Mexico), M.A. (Toronto), Ph.D. (New Mexico), Associate Professor
- M. Silcox, B.Sc. (Toronto), Ph.D. (Johns Hopkins), Associate Professor
- J. Teichroeb, B.Sc., M.A., Ph.D. (Calgary), Assistant Professor
- D. Young, B.A., M.A. (New Brunswick), Ph.D. (Toronto), Assistant Professor

Chair: Michael Lambek

Academic Program Supervisor: TBA
Program Advisor: J. Roopnarinesingh Email: anthropology-advisor@utsc.utoronto.ca

Anthropology is the study of humankind, dealing with the origin, development and nature of humans and their culture. As such, it is concerned with human phenomena in the widest possible terms, both biological and cultural. It differs from other social sciences in its comparative and historical approach, and in its intimate links with both the natural sciences and the humanities. Anthropology examines societies today and in the past, including complex civilizations, global and transnational interconnections, and relatively small-scale societies.

From this vantage point, Anthropology attempts to understand the common factors underlying human existence and the factors that produce social change and differences between people and cultures.

Due to its vast subject matter, Anthropology is traditionally divided into four subject fields: Socio-cultural Anthropology, Evolutionary Anthropology, Anthropological Linguistics, and Archaeology. At the present time, University of Toronto Scarborough offers courses within two major streams: Socio-cultural and Evolutionary. Some Linguistic Anthropology courses are also offered and are closely linked to the Socio-cultural stream.

Students intending to complete a program in Anthropology should take ANTA01H3 and ANTA02H3 within their first year in order to prepare them for more advanced courses. Students normally elect whether to pursue the Socio-cultural stream (which leads to a B.A. degree) or the Evolutionary Anthropology stream (which leads to a B.Sc. degree) at the beginning of their second year of study, but are encouraged to take courses in both streams. All courses in Evolutionary Anthropology carry a science credit.

Anthropology Programs

SPECIALIST PROGRAM IN EVOLUTIONARY ANTHROPOLOGY (SCIENCE)

The Specialist Program in Evolutionary Anthropology is intended to provide the professionally oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure as background for a wide range of occupations and professions. Students are encouraged to consult with the Undergraduate Counsellor regarding the selection of a course sequence appropriate to their interests and objectives. In exceptional circumstances, supervised research and reading courses are available at the C- and D-levels (ANTC04H3, ANTD32H3). These courses require special arrangements prior to registration. Read the descriptions for these courses carefully as restrictions apply.

Program Requirements
The Program requires completion of 12.0 full credits, as indicated below.
1. ANTA01H3 Introduction to Anthropology: Becoming Human
   ANTA02H3 Introduction to Anthropology: Society, Culture and Language
2. ANTB14H3 Biological Anthropology: Beginnings
3. ANTB15H3 Contemporary Human Evolution and Variation
4. 10.0 credits at the B-level or above, of which at least 5.0 credits must be at the C- or D-level, including at least 1.0 credit at the D-level. At least 7.5 credits must be composed of ANT courses identified as “Science credit” in the UTSC Academic Calendar.
Note: ANTB14H3 and ANTB15H3 are prerequisites for C- and D-level courses in the Evolutionary Anthropology program.

SPECIALIST PROGRAM IN SOCIO-CULTURAL ANTHROPOLOGY (ARTS)

The Specialist Program in Socio-Cultural Anthropology is intended to provide the professionally oriented student with background preparation of sufficient breadth and depth to pursue specialized training at the graduate level. It is also designed to offer interested students a course structure as background for a wide range of occupations and professions. Students are encouraged to consult with the Undergraduate Counsellor regarding the selection of a course sequence appropriate to their interests and objectives. In exceptional circumstances, supervised research and reading courses are available at the C- and D-levels (ANTC03H3, ANTD31H3). These courses require special arrangements prior to registration. Read the descriptions for these courses carefully as restrictions apply.

Program Requirements
The Program requires completion of 12.0 full credits, as indicated below.

1. ANTA01H3 Introduction to Anthropology: Becoming Human
2. ANTA02H3 Introduction to Anthropology: Society, Culture and Language
3. ANTB19H3 Ethnography and the Comparative Study of Human Societies
4. ANTB20H3 Culture, Politics and Globalization
5. 10.0 credits at the B-level or above, of which at least 5.0 credits must be at the C- or D-level, including at least 1.0 credit at the D-level. Students must ensure that as part of Requirement 4, they complete:
   a. At least 1.0 credit in area studies courses: ANTB05H3, ANTB16H3, ANTB18H3, ANTB65H3, ANTC89H3, ANTD07H3
   b. At least 0.5 credit in Ethnographic methods: ANTC60H3 or ANTD05H3
   c. At least 1.0 credit from among ANTD05H3, ANTD06H3, ANTD15H3, and ANTD24H3
   d. Courses in Anthropological Linguistics may be counted towards fulfilling Requirement 4.

Note: ANTB19H3 and ANTB20H3 are prerequisites for C- and D-level courses in the Socio-Cultural Anthropology program.

MAJOR PROGRAM IN EVOLUTIONARY ANTHROPOLOGY (SCIENCE)

The Major program in Evolutionary Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological, and biological perspective on the human condition.

Program Requirements
The Program requires completion of 8.0 full credits in Anthropology including:

1. ANTA01H3 Introduction to Anthropology: Becoming Human
2. ANTA02H3 Introduction to Anthropology: Society, Culture and Language
3. ANTB14H3 Biological Anthropology: Beginnings
4. ANTB15H3 Contemporary Human Evolution and Variation
5. 6.0 credits at the B-level or above, of which at least 3.0 credits must be at the C- or D-level. At least 5.5 credits must be composed of ANT courses identified as "Science credit" in the UTSC Academic Calendar.

Note: ANTB14H3 and ANTB15H3 are prerequisites for C- and D-level courses in the Evolutionary Anthropology program.

MAJOR PROGRAM IN SOCIO-CULTURAL ANTHROPOLOGY (ARTS)

The Major program in Socio-Cultural Anthropology provides a course structure for those students desiring to expand upon or supplement other areas of academic interest by taking advantage of Anthropology's unique global, chronological, and biological perspective on the human condition.

Program Requirements
The Program requires completion of 8.0 full credits in Anthropology including:

1. ANTA01H3 Introduction to Anthropology: Becoming Human
2. ANTA02H3 Introduction to Anthropology: Society, Culture and Language
3. ANTB19H3 Ethnography and the Comparative Study of Human Societies
4. ANTB20H3 Culture, Politics and Globalization
5. 6.0 credits at the B-level or above, of which at least 3.0 credits must be at the C- or D-level. Students must ensure that as part of Requirement 4, they complete:
   a. At least 1 credit in area studies courses ANTB05H3, ANTB16H3, ANTB18H3, ANTB65H3, ANTC89H3 ANTD07H3
   b. ANTC60H3
   c. At least 0.5 credit from among ANTD05H3, ANTD06H3, ANTD15H3, and ANTD24H3
   d. Courses in Anthropological Linguistics may be counted towards fulfilling Requirement 4.
Note: ANTB19H3 and ANTB20H3 are prerequisites for C- and D-level courses in the Socio-Cultural Anthropology program.

MINOR PROGRAM IN ANTHROPOLOGY (ARTS)

The Minor Program in Anthropology provides a course structure for students majoring or specializing in other disciplines who want some directed exposure to anthropological thought.

Program Requirements
The Program requires completion of 4.0 full credits as follows:
1. ANTA01H3 Introduction to Anthropology: Becoming Human
ANTA02H3 Introduction to Anthropology: Society, Culture and Language
2. At least 1.0 credit from among the following:
   ANTB14H3 Biological Anthropology: Beginnings
   ANTB15H3 Contemporary Human Evolution and Variation
   ANTB19H3 Ethnography and the Comparative Study of Human Societies
   ANTB20H3 Culture, Politics and Globalization
3. 2.0 additional credits in Anthropology, of which 1.0 credit must be at the C- or D-level.

Anthropology Courses

ANTA01H3 Introduction to Anthropology: Becoming Human
An introduction to Biological Anthropology and Archaeology. Concentrates on the origins and evolution of human life, including both biological and archaeological aspects, from the ancient past to the present.
Science credit
Exclusion: ANT100Y, ANT101H
Breadth Requirement: Natural Sciences

ANTA02H3 Introduction to Anthropology: Society, Culture and Language
How does an anthropological perspective enable us to understand cultural difference in an interconnected world? In this course, students will learn about the key concepts of culture, society, and language. Drawing upon illustrations of family, economic, political, and religious systems from a variety of the world’s cultures, this course will introduce students to the anthropological approach to studying and understanding human ways of life.
Exclusion: ANT100Y, ANT102H
Breadth Requirement: Social & Behavioural Sciences

ANTB01H3 Political Ecology
This course examines human-environmental relations from an anthropological perspective. Throughout the semester, we explore how peoples from different parts of the globe situate themselves within culturally constructed landscapes. Topics covered include ethnecology, conservation, green consumerism, the concept of ‘wilderness’, and what happens when competing and differentially empowered views of the non-human world collide.
Prerequisite: ANTA02H3
Breadth Requirement: Social & Behavioural Sciences

ANTB05H3 Culture and Society in Africa
An overview of the range and diversity of African social institutions, religious beliefs and ritual, kinship, political and economic organization, pre-colonial, colonial and post-colonial experience.
Same as AFSA05H3
Area course
Prerequisite: ANTA02H3 or AFSA01H3
Exclusion: AFSA05H3
Breadth Requirement: Social & Behavioural Sciences

ANTB09H3 Culture through Film and Media
How is culture represented through visual media, from ethnographic and documentary film, to feature films, television, and new media? How do various communities re-vision themselves through mass, independent, or new media? This course investigates media and its role in the contemporary world from a socio-cultural anthropological perspective.
Prerequisite: ANTA02H3
Enrolment Limits: 120
Breadth Requirement: Social & Behavioural Sciences

ANTB14H3 Biological Anthropology: Beginnings
This course surveys humanity’s origin. The synthetic theory of evolution, its principles, processes, evidence and application underlie this course. Lecture topics and laboratory projects include: evolutionary theory, human variation, human adaptability, primate biology, and behaviour, taxonomy and classification, paleontological principles and human origins.
Science credit
Prerequisite: ANTA01H3
Exclusion: ANT203Y
Breadth Requirement: Natural Sciences

ANTB15H3 Contemporary Human Evolution and Variation
Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized Biological Anthropology. Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability and health and disease.
Science credit
Same as HLTB20H3
Prerequisite: ANTA01H3 or [HLTA02H3 and HLTA03H3]
Exclusion: ANT203Y, HLTB20H3
Breadth Requirement: Natural Sciences

ANTB16H3 Canadian Cultural Identities
This course explores the creation or invention of a Canadian national identity in literature, myth and symbolism, mass media, and political culture. Ethnographic accounts that consider First Nations, regional, and immigrant identities are used to complicate the dominant story of national unity.
Area course
Prerequisite: ANTA02H3 or [any 4.0 credits in ANT, HLT, IDS, CIT, GGR, POL, SOC or HCS courses]
ANTB18H3 Development, Inequality and Social Change in Latin America
This course addresses Latin American systems of inequality in relation to national and transnational political economy, from colonialism to neoliberalism; how ideas of race, culture, and nation intersect with development thinking and modernization agendas; and how the poor and marginalized have accommodated, resisted, and transformed cultural and political domination.
Area course
Prerequisite: ANTA02H3
Exclusion: (ANTC08H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTB19H3 Ethnography and the Comparative Study of Human Societies
This course introduces students to the theory and practice of ethnography, the intensive study of people's lives as shaped by social relations, cultural beliefs, and historical forces. Various topics, including religion, economics, politics, and kinship introduce students to key anthropological concepts and theoretical developments in the field.
Prerequisite: ANTA02H3 or [any 4.0 credits in ANT, HLT, IDS, CIT, GGR, POL, SOC or HCS courses]
Exclusion: ANT204Y, ANT207H1
Breadth Requirement: Social & Behavioural Sciences

ANTB20H3 Culture, Politics and Globalization
This course is a further examination of approaches to the study of human cultural diversity in an interconnected world. Through ethnographic accounts and documentary films, students examine the effects of globalization through the political dimensions of culture and the global flows of technology, religion, kinship networks, migration, capital and crime.
Prerequisite: ANTA02H3 or [any 4.0 credits in ANT, HLT, IDS, CIT, GGR, POL, SOC or HCS courses]
Exclusion: ANT204Y, ANT204H
Breadth Requirement: Social & Behavioural Sciences

ANTB21H3 Anthropology of Language and Media: An Introduction
Anthropology studies language and media in ways that show the impact of cultural context. This course introduces this approach and also considers the role of language and media with respect to intersecting themes: ritual, religion, gender, race/ethnicity, power, nationalism, and globalization. Class assignments deal with lecturers, readings, and students' examples.
Same as MDSB02H3
Prerequisite: ANTA02H3 or MDSA01H3
Exclusion: MDSB02H3
Breadth Requirement: Arts, Literature & Language

ANTB22H3 Primate Behaviour
This course will provide students with a general introduction to the behaviour and ecology of non-human primates (prosimians, Old and New World monkeys, and apes), with a particular emphasis on social behaviour. The course will consist of lectures reinforced by course readings; topics covered will include dominance, affiliation, social and mating systems, communication, and reproduction.
Science credit
Prerequisite: ANTA01H3
Breadth Requirement: Social & Behavioural Sciences

ANTB36H3 Anthropology of the End of the World
A cultural and comparative study of apocalyptic thought, practice, and representation around the world. It explores the conditions that inspire end times thinking and the uses it serves. Cases may include: millenarian movements, Revelation, colonialism, epidemics, infertility, deindustrialization, dystopian science fiction, nuclear war, climate change, and zombies.
Prerequisite: ANTA02H3
Breadth Requirement: Social & Behavioural Sciences

ANTB64H3 The Anthropology of Food
This course examines the social significance of food and foodways from the perspective of cultural anthropology. We explore the beliefs and behaviours surrounding the production, distribution and consumption of food, and the role of food in shaping or revealing cultural relations, identities, political processes, and forms of globalization.
Prerequisite: ANTA02H3 or [any 4.0 credits in ANT, HLT, IDS, CIT, GGR, POL, SOC or HCS courses]
Exclusion: (ANTC64H3)
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

ANTB65H3 An Introduction to Pacific Island Societies
Introduces the cultures and peoples of the Pacific. Examines the ethnography of the region, and the unique contributions that Pacific scholarship has made to the development of anthropological theory.
Explores how practices of exchange, ritual, notions of gender, death and images of the body serve as the basis of social organization.
Area course
Prerequisite: ANTA02H3
Exclusion: (ANTC65H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTB66H3 Spiritual Paths: A Comparative Anthropology of Pilgrimage
A comparison of pilgrimage in different religious traditions, including Christian, Buddhist, Muslim, Hindu and those of indigenous communities (such as the Huichol of Mexico) will introduce students to the anthropology of religion. We will consider the aspirations and experiences of various pilgrims, while being mindful of cultural similarities and differences.
Prerequisite: ANTA02H3 or [any 4.0 credits]
Exclusion: RLG215H
Breadth Requirement: Social & Behavioural Sciences

ANTC03H3 Directed Reading in Anthropology
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature.
These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering.
Individual tutorials, as arranged. A minimum B plus average is normally required to be considered for these courses. May be science credit or area course depending on topic.
Prerequisite: Permission of the instructor and ANTA01H3 and ANTA02H3 and one B-level full credit in Anthropology in the appropriate sub-field (biological or cultural).
ANTC04H3 Directed Reading in Anthropology
A directed exploration of specific topics in Anthropology, based on extensive investigation of the literature. These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering. Individual tutorials, as arranged. A minimum B plus average is normally required to be considered for these courses. May be science credit or area course depending on topic.
Prerequisite: Permission of the instructor and ANTA01H3 and ANTA02H3 and one B-level full credit in Anthropology in the appropriate sub-field (biological or cultural).

ANTC07H3 Material Worlds
This course explores the intersection of the social and the material by examining the role of objects in making worlds. We examine the relationship between people, culture, and ‘things’ through topics such as commodification and consumption, collecting and representation, technology and innovation, art and artifact, and the social life of things.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC09H3 Sex, Love, and Intimacy: Anthropological Approaches to Kinship and Marriage
This course explores Anthropological approaches to kinship and family arrangements. In addition to examining the range of forms that family arrangements can take cross-culturally, we also examine how kinship configurations have changed within our own society in recent years. Topics to be covered include trans-national adoption, "mail-order-brides", new reproductive technologies and internet dating.
Prerequisite: ANTA02H3 and ANTB19H3 and ANTB20H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC10H3 Anthropological Perspectives on Development
A critical probe of the origins, concepts, and practices of regional and international development in cultural perspective. Attention is paid to how forces of global capitalism intersect with local systems of knowledge and practice.
Prerequisite: ANTB19H3 and ANTB20H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC14H3 Feminism and Anthropology
Examines why, when, and how gender inequality became an anthropological concern by tracing the development of feminist thought in a comparative ethnographic framework.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC15H3 Genders and Sexualities
Complements and extends ANTC14H3 by exploring cultural constructions of male and female in a range of societies and institutions.
Prerequisite: ANTB19H3 and ANTB20H3
Recommended Preparation: ANTC14H3
Breadth Requirement: Social & Behavioural Sciences

ANTC16H3 The Foundation and Theory of Human Origins
The study of human origins in light of recent approaches surrounding human evolution. This course will examine some of these, particularly the process of speciation, with specific reference to the emergence of Homo. Fossils will be examined, but the emphasis will be on the interpretations of the process of hominisation through the thoughts and writings of major workers in the field.
Science credit
Prerequisite: ANTA01H3 or ANTB14H3 or ANTC17H3
Exclusion: (ANT332Y)
Breadth Requirement: Natural Sciences

ANTC17H3 Human Origins: New Discoveries
The study of human origins in light of recent approaches surrounding human evolution. New fossil finds present new approaches and theory. This course will examine some of these, particularly the process of speciation and hominisation with specific reference to the emergence of Homo. Labs permit contact with fossils in casts.
Science credit
Prerequisite: ANTA01H3 and ANTA02H3
Exclusion: (ANT332Y)
Breadth Requirement: Natural Sciences

ANTC18H3 Urban Anthropology
Urban spaces, neighbourhoods, and institutions have at different times been the focus of ethnographic studies of cities. In this course we will examine the role of culture, cultural diversity, space and performance in urban institutions.
Prerequisite: [ANTB19H3 and ANTB20H3] or [1.5 credits at the B-level in CIT courses]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC19H3 Producing People and Things: Economics and Social Life
This course examines economic arrangements from an anthropological perspective. A key insight to be examined concerns the idea that by engaging in specific acts of production, people produce themselves as particular kinds of human beings. Topics covered include gifts and commodities, consumption, global capitalism and the importance of objects as cultural mediators in colonial and post-colonial encounters.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC20H3 Gifts, Money and Morality
What limits exist or can be set to commoditized relations? To what extent can money be transformed into virtue, private goods into the public “Good”? We examine the anthropological literature on gift-giving, systems of exchange and value, and sacrifice. Students may conduct a short ethnographic project on money in our own society, an object at once obvious and mysterious.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC23H3 Primate Sexuality
This course will review primate socio-sexual behaviour from an evolutionary perspective. Following a broad survey of mating patterns in the primate order, specific topics will be discussed, including male and female mating strategies, mate choice and sperm competition. Taxonomic groups of focus will include prosimians, monkeys, apes and humans.
Science credit
Prerequisite: ANTB22H3
ANTC24H3  Culture, Mental Illness, and Psychiatry
Does schizophrenia exist all over the world? Does depression look different in China than it does in Canada? By examining how local understandings of mental illness come into contact with Western psychiatric models, this course considers the role of culture in the experience, expression, definition, and treatment of mental illness and questions the universality of Western psychiatric categories.
Prerequisite: [ANTB19H3 and ANTB20H3] or HLTB42H3
Recommended Preparation: ANTC61H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC25H3  Anthropology and Psychology
How are we to understand the relationship between psychological universals and diverse cultural and social forms in the constitution of human experience? Anthropology's dialogue with Freud; cultural construction and expression of emotions, personhood, and self.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC31H3  Ritual and Religious Action
The nature and logic of ritual. Religious practices and projects; the interface of religion, power, morality, and history in the contemporary world.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC32H3  Political Anthropology
Can ethnographic research help us make sense of various political situations and conflicts around the world? In this course we will review different approaches to power and politics in classical and current anthropology. We will consider notions of the state, political agency and power, civil society, authoritarianism and democracy.
Prerequisite: ANTB19H3 and ANTB20H3
Breadth Requirement: Social & Behavioural Sciences

ANTC33H3  Conceptualizing Religion
Anthropological approaches to the origin and function of religion, and the nature of symbolism, myth, ritual, sorcery, spirit possession, and cosmology, with primary reference to the religious worlds of small-scale societies.
Prerequisite: ANTB19H3 and ANTB20H3
Exclusion: (ANTB30H3)
Breadth Requirement: Social & Behavioural Sciences

ANTC34H3  The Anthropology of Transnationalism
This course considers dimensions of transnationalism as a mode of human sociality and site for cultural production. Topics covered include transnational labour migration and labour circuits, return migration, the transnational dissemination of electronic imagery, the emergence of transnational consumer publics, and the transnational movements of refugees, kinship networks, informal traders and religions.
Prerequisite: [ANTB19H3 and ANTB20H3] or [any 8.0 credits in ANT, HLT, IDS, CIT, GGR, POL, SOC or HCS courses]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC35H3  Quantitative Methods in Anthropology
A consideration of quantitative data and analytical goals, especially in archaeology and biological anthropology. Some elementary computer programming, and a review of program packages suitable for anthropological analyses will be included.
Science credit
Prerequisite: ANTA01H3 and ANTA02H3
Exclusion: MGEB11H3/(ECMB11H3), PSYB07H3, (SOCB06H3), STAB22H3
Recommended Preparation: ANTB15H3
Breadth Requirement: Quantitative Reasoning

ANTC40H3  Methods and Analysis in Anthropological Demography
An examination of the biological, demographic, ecological and socio-cultural determinants of human and non-human population structure and the interrelationships among them. Emphasis is given to constructing various demographic measures of mortality, fertility and immigration and their interpretation.
Science credit
Prerequisite: ANTB14H3 and ANTB15H3 and any statistics course
Breadth Requirement: Quantitative Reasoning

ANTC41H3  Environmental Stress, Culture and Human Adaptability
Human adaptability refers to the human capacity to cope with a wide range of environmental conditions, including aspects of the physical environment like climate (extreme cold and heat), high altitude, geology, as well as aspects of the socio-cultural milieu, such as pathogens (disease), nutrition and malnutrition, migration, technology, and social change.
Science credit
Prerequisite: [ANTB14H3 and ANTB15H3] or [BIOA01H3 and BIOA02H3]
Breadth Requirement: Natural Sciences

ANTC42H3  Human Growth, Development and Adaptability
Human adaptability refers to the human capacity to cope with a wide range of environmental conditions, including aspects of the physical environment like climate (extreme cold and heat), high altitude, geology, as well as aspects of the socio-cultural milieu, such as pathogens (disease), nutrition and malnutrition, migration, technology, and social change.
Science credit
Prerequisite: ANTC41H3
Breadth Requirement: Natural Sciences

ANTC43H3  Quantitative Methods in Anthropology
A consideration of quantitative data and analytical goals, especially in archaeology and biological anthropology. Some elementary computer programming, and a review of program packages suitable for anthropological analyses will be included.
Science credit
Prerequisite: ANTA01H3 and ANTA02H3
Exclusion: MGEB11H3/(ECMB11H3), PSYB07H3, (SOCB06H3), STAB22H3
Recommended Preparation: ANTB15H3
Breadth Requirement: Quantitative Reasoning

ANTC47H3  Human and Primate Comparative Osteology
A "hands-on" laboratory course which introduces students to analyzing human and nonhuman primate skeletal remains using a comparative framework. The course will cover the gross anatomy of the skeleton and dentition, as well as the composition and microstructure of bone and teeth. The evolutionary history and processes associated with observed differences in human and primate anatomy will be discussed.
Science credit
Prerequisite: ANTB14H3
Exclusion: ANTC33H, ANTC33Y
Enrolment Limits: 33
Breadth Requirement: Natural Sciences
ANTC48H3 Advanced Topics in Human Osteology
A "hands-on" laboratory course which introduces students to the methods of analyzing human skeletal remains. Topics and analytic methods include: (1) the recovery and treatment of skeletal remains from archaeological sites; (2) odontological description, including dental pathology; (3) osteometric description; (4) nonmetric trait description; (5) methods of estimating age at death and sex; (6) quantitative analysis of metric and nonmetric data; and (7) paleopathology.
Science credit
Prerequisite: ANTC47H3
Exclusion: ANT334H, ANT334Y
Enrolment Limits: 33
Breadth Requirement: Natural Sciences

ANTC52H3 Global Politics of Language
Language and ways of speaking are foundational to political cultures. This course covers the politics of language in the age of globalization, including multiculturalism and immigration, citizenship, race and ethnicity, post-colonialism, and indigeneity. Ethnographic examples are drawn from a variety of contexts, including Canadian official bilingualism and First Nations.
Prerequisite: ANTB19H3 and ANTB20H3
Recommended Preparation: ANTB21H3
Enrolment Limits: 60
Breadth Requirement: Arts, Literature & Language

ANTC53H3 Anthropology of Media and Publics
How do media work to circulate texts, images, and stories? Do media create unified publics? How is the communicative process of media culturally-distinct? This course examines how anthropologists have studied communication that occurs through traditional and new media. Ethnographic examples drawn from several contexts. Same as MDSC53H3
Prerequisite: [ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3 and ACM801H3]
Exclusion: MDSC53H3
Enrolment Limits: 60
Breadth Requirement: Arts, Literature & Language

ANTC60H3 Fieldwork in Social and Cultural Anthropology
An investigation of how social-cultural anthropologists collect data and conduct fieldwork. Students complement reading and lectures on methods with gaining first-hand experience in carrying out various techniques of anthropological research including interviewing, collecting life histories, participant observation, and project design. We also consider what it means to carry out ethically responsible research.
Prerequisite: ANTB19H3 and ANTB20H3 and at least 0.5 credit at the C-level in socio-cultural anthropology
Enrolment Limits: 40 with preference given to Majors in Anthropology, then Majors in Anthropology and Specialists in International Development Studies.
Breadth Requirement: Social & Behavioural Sciences

ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective
Social and symbolic aspects of the body, the life-cycle, the representation and popular explanation of the logic of traditional healing systems, the culture of North American illness and biomedicine, mental illness, social roots of disease, innovations in health care delivery systems.
Prerequisite: [ANTB19H3 and ANTB20H3] or HLTB42H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC62H3 Medical Anthropology: Biological and Demographic Perspectives
The examination of health and disease in ecological and socio-cultural perspective. Emphasis is placed on variability of populations in disease susceptibility and resistance in an evolutionary context. With its sister course, ANTC61H3, this course is designed to introduce students to the basic concepts and principles of medical anthropology. Principles of epidemiology, patterns of inheritance and biological evolution are considered.
Science credit
Prerequisite: ANTB14H3 and ANTB15H3
Enrolment Limits: 60
Breadth Requirement: Natural Sciences

ANTC66H3 Anthropology of Tourism
This course explores the global cultural phenomenon of tourism. Using case studies and historical perspectives, we investigate the complex motivations and consequences of travel, the dimensions of tourism as development, the ways tourism commodifies daily life, the politics of tourism representation, and the intersection of travel, authenticity and modernity.
Prerequisite: ANTB19H3 and ANTB20H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

ANTC67H3 Foundations in Epidemiology
Epidemiology is the study of disease and its determinants in populations. It is grounded in the biomedical paradigm, statistical reasoning, and that risk is context specific. This course will examine such issues as: methods of sampling, types of controls, analysis of data, and the investigation of epidemics.
Science credit
Prerequisite: Any B-level course in Anthropology or Biology and any statistics course.
Breadth Requirement: Quantitative Reasoning

ANTC68H3 Deconstructing Epidemics
Colonization, globalization and socio-ecological factors play an important role in origin, maintenance and emergence of old and new infectious diseases in human populations such as yellow fever, cholera, influenza, SARS. Issues of co-morbidity, the epidemiological transition, syndemics and the impact of global warming on the emergence of new diseases are discussed.
Science credit
Prerequisite: Any B-level course in Anthropology or Biology and any statistics course.
Breadth Requirement: Natural Sciences

ANTC69H3 Ideas That Matter: Key Themes and Thinkers in Anthropology
This course explores key themes, theories, and thinkers that have shaped anthropological thought, past and present. In any given year we will focus on the work of a particular important thinker or a school of thought. As we examine trends and approaches that have been influential to the field, we consider the debates these have generated, the ethnographic innovations they have inspired, and their relevance for core debates in anthropology. Topics and readings will be chosen annually by the instructor.
Prerequisite: ANTB19H3 and ANTB20H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the specialist program in Anthropology. Additional students will be admitted as space permits.
ANTC99H3 The Anthropology of the Middle East
What makes the Middle East unique as a world region? This course considers topics like transnational religious movements, imperial and nationalist histories, issues of language diversity, the impact of new communication technologies, and regional conflicts. Ethnographic examples are drawn from different contexts. Prerequisite: ANTB19H3 and ANTB20H3 Breadth Requirement: Social & Behavioural Sciences

ANTC99H3 Primate Evolution
This course examines 65 million years of evolutionary history for non-human primates. The primary emphasis will be on the fossil record. Topics covered may include the reconstruction of behaviour from fossil remains, the evolution of modern primate groups, and the origins of the Order. Prerequisite: ANTA01H3 or ANTB14H3 Enrolment Limits: 60 Breadth Requirement: Natural Sciences

ANTD01H3 The Body in Culture and Society
An ethnographic inquiry into the culturally configured human body as a reservoir of experiential knowledge, focus of symbolism, and site of social, moral, and political control. Prerequisite: ANTB19H3 and ANTB20H3 and at least 1.0 credit at the C-level in socio-cultural anthropology. Enrolment Limits: 25 Breadth Requirement: Social & Behavioural Sciences

ANTD04H3 The Anthropology of Violence and Suffering
This course examines the social life of violence, its cultural production and political effects in a global perspective. It asks how social worlds are made and unmade through, against, and after violent events, how violence is remembered and narrated, and how ethnography might respond to experiences of suffering, trauma, and victimhood. Prerequisite: ANTB19H3 and ANTB20H3 and at least one additional C-level course in socio-cultural anthropology. Enrolment Limits: 25 Breadth Requirement: Social & Behavioural Sciences

ANTD05H3 Advanced Fieldwork Methods in Social and Cultural Anthropology
This course provides students with experience in carrying out ethnographic research in the Greater Toronto Area. Working with the Center for Ethnography, students define and execute a research project of their own design. This course culminates in an original research paper. Prerequisite: ANTB19H3 and ANTB20H3 and ANTC60H3 and at least two additional C-level (1.0 credit) in socio-cultural anthropology. Preference will be given to Specialists and Majors in Anthropology. Enrolment Limits: 15 Breadth Requirement: Social & Behavioural Sciences

ANTD06H3 Reading Ethnography
This course considers the reading and writing of ethnography - the classic genre of socio-cultural anthropology. We examine what differentiates ethnography from other forms of research and how to distinguish ethnographic works of high quality. Also considered are the politics of representation, including how ethnographic writing may reflect unequal relationships of power. Prerequisite: ANTB19H3 and ANTB20H3 and at least two additional C-level courses (1.0 credit) in socio-cultural anthropology. Enrolment Limits: 25 Breadth Requirement: Social & Behavioural Sciences

ANTD07H3 Advanced Regional Seminar
This course allows students to examine particular culture areas at an advanced level. Regions to be covered may include South Asia, East Asia, the Muslim World, Latin America, The Pacific, Europe, Africa, or North America. Specific case studies from the region will be used to highlight theoretical and ethnographic issues. Prerequisite: ANTB19H3 and ANTB20H3 and [at least one previous area course] and at least one additional C-level course in socio-cultural anthropology. Enrolment Limits: 25

ANTD10H3 The Anthropology of ‘Life’ Itself
This course will examine cultural understandings of ‘life’ – What is life? What is a life? How do humans value (or alternatively not value) life in different social and cultural settings? What constitutes a ‘good life’? To what degree are cultural understandings of ‘life’ entangled with those of ‘death’. Prerequisite: [ANTB19H3 and ANTB20H3] and [at least 1.0 credit at the C-level in socio-cultural anthropology courses] Exclusion: (ANTC11H3) Enrolment Limits: 25 Breadth Requirement: Social & Behavioural Sciences

ANTD13H3 Frontiers of Anthropology: A Biological Perspective
An advanced seminar course primarily for majors and specialists in biological anthropology. Topic to be announced annually. Prerequisite: ANTB14H3 and ANTB15H3 and at least one C-level course in biological anthropology. Enrolment Limits: 25

ANTD15H3 Frontiers of Socio-Cultural Anthropology
An advanced seminar course primarily for specialists and majors in Anthropology. Topic changes annually and is linked to the theme of our seminar series for the year. Students will attend talks by 2-3 guest speakers in addition to the regular seminar. In previous years, the theme has been Masculinities, Pilgrimage, History and Historicities. Prerequisite: ANTB19H3 and ANTB20H3 and at least two C-level courses in socio-cultural anthropology. Enrolment Limits: 25

ANTD16H3 Biomedical Anthropology
This course is designed for advanced students seeking an intensive examination of specific problems in medical Anthropology. Problems to be discussed include: genetic disorders in families and populations, the interaction of malnutrition and infectious diseases in human populations, chronic non-infectious diseases in populations today, and epidemiology and medical anthropology as complementary disciplines. Science credit Prerequisite: ANTC62H3 and one additional C-level full credit in Biological Anthropology Breadth Requirement: Natural Sciences

ANTD17H3 Medical Osteology: Public Health Perspectives on Human Skeletal Health
This seminar course will examine the clinical, epidemiological and public health literature on osteoporosis and other conditions impacting skeletal health. The course will also explore the potential economic impacts of osteoporosis on Canada’s health care system given emerging demographic changes. Science credit Prerequisite: ANTC47H3 and ANTC48H3 Breadth Requirement: Natural Sciences
ANTD20H3 Culture and Community
A field-based research seminar exploring the cultural dimensions of community and sense of place. Partnering with community-based organizations in Scarborough and the GTA, students will investigate topical issues in the immediate urban environment from an anthropological perspective. Yearly foci may include food, heritage, diaspora, and family.
Prerequisite: ANTB19H3 and ANTB20H3 and [at least 1.0 credit at the C-level in Socio-Cultural Anthropology courses]
Recommended Preparation: ANTC60H3
Enrolment Limits: 15
Breadth Requirement: Social & Behavioural Sciences

ANTD22H3 Theory and Methodology in Primatology
This seminar course will examine current socio-ecological theory in primatology and explore different methods for studying and sampling primate behaviour.
Science credit
Prerequisite: ANTB22H3 and ANTC23H3
Enrolment Limits: 25

ANTD24H3 The History of Anthropological Thought
An overview of the history of socio-cultural anthropology. This course focuses on certain key theoretical debates which run through it and largely determine the "state of the art" today. Evolutionary, diffusionist, psychological, cross-cultural, functionalist, structuralist, hermeneutical and other classical approaches are among those that will be considered through the works of major figures like Tylor, Durkheim, Boas, Kroeber, Malinowski, Radcliffe-Brown, Levi-Strauss, and others, up to the present. An attempt will be made to understand these individuals in terms of the social and intellectual climates in which they wrote.
Prerequisite: ANTB19H3 and ANTB20H3 and at least 1.0 credit at the C-level in socio-cultural anthropology
Breadth Requirement: Social & Behavioural Sciences

ANTD25H3 Medical Primatology: Public Health Perspectives on Zoonotic Diseases
This course will examine the social and cultural contexts of animal-to-human disease transmission globally, and the public risks associated zoonoses present here in Canada. The course will incorporate both anthropological and epidemiological perspectives.
Science credit
Prerequisite: ANTB14H3 and ANTB15H3 and (HLTA01H3) and [ANTC35H3 or (SOCB06H3) or STAB22H3]
Breadth Requirement: Natural Sciences

ANTD31H3 Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research. These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering.
Individual tutorials, as arranged. A minimum B plus average is normally required to be considered for these courses. May be science credit or area course depending on topic.
Prerequisite: ANTA01H3 and ANTA02H3 and 2.0 full credits in Anthropology, one of which must be at the C-level. Permission of the instructor.

ANTD32H3 Advanced Research in Anthropology
Directed critical examination of specific problems in Anthropology, based on library and/or field research. These courses are available in exceptional circumstances and do not duplicate regular course offerings. Students are advised that they must obtain consent from the supervising instructor before registering.
Individual tutorials, as arranged. A minimum B plus average is normally required to be considered for these courses. May be science credit or area course depending on topic.
Prerequisite: ANTA01H3 and ANTA02H3 and 2.0 full credits in Anthropology, one of which must be at the C-level. Permission of the instructor.

ANTD35H3 Bioarchaeology
This course will focus on a new direction in anthropology, exploring the potential of skeletal remains in reconstructing past lifeways. This seminar style class will build upon concepts introduced in Human Osteology courses. Additionally, more advanced methods of reconstructing patterns of subsistence, diet, disease, demography and physical activity.
Prerequisite: ANTC47H3 and ANTC48H3
Exclusion: ANT434H, ANT441H
Enrolment Limits: 25
Breadth Requirement: Natural Sciences

ANTD40H3 Topics in Emerging Scholarship in Evolutionary Anthropology
Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area of expertise, this course presents a unique opportunity to explore intensively a particular Evolutionary or Archaeological Anthropology topic in-depth. Topics vary from year to year.
Prerequisite: [ANTB14H3 and ANTB15H3] and [at least 2.0 credits at the C-level in Evolutionary Anthropology]
Enrolment Limits: 30
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the Specialist in Anthropology. Additional students will be admitted as space permits.

ANTD41H3 Topics in Emerging Scholarship in Socio-Cultural Anthropology
Taught by an advanced PhD student or postdoctoral fellow, and based on his or her doctoral research and area of expertise, this course presents a unique opportunity to explore intensively a particular Socio-Cultural or Linguistic Anthropology topic in-depth. Topics vary from year to year.
Prerequisite: [ANTB19H3 and ANTB20H3] and at least 2.0 credits at the C-level in Sociocultural Anthropology
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Specialist program in Anthropology. Additional students will be admitted as space permits.

ANTD99H3 Advanced Topics in Primate Evolution
This course will examine questions of particular controversy in the study of Primate Evolution. Topics to be covered may include the ecological context of primate origins, species recognition in the fossil record, the identification of the first anthropoids, and the causes of extinction of the subfossil lemurs.
Science credit
Prerequisite: ANTB14H3 and at least one C-level course (1.0 credit) in biological anthropology.
Exclusion: ANTD13H3 if completed in the 2010/2011 academic year
Recommended Preparation: ANTC99H3
Enrolment Limits: 25
Breadth Requirement: Natural Sciences
Applied Microbiology (formerly Industrial Microbiology)

Faculty List

- S.A. Brunt, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream

Applied Microbiology (formerly Industrial Microbiology) Programs

SPECIALIST (JOINT) PROGRAM IN APPLIED MICROBIOLOGY (SCIENCE)

Supervisor: S. Brunt Email: applied-microbiology@utsc.utoronto.ca

Enrolment in the Specialist (Joint) program in Applied Microbiology has been suspended indefinitely. Students who enrolled prior to the 2013 Summer Session should refer to the 2012/2013 UTSC Calendar.

Applied Microbiology (formerly Industrial Microbiology) Courses

IMCB01H3  Microbiology Basics
Basic principles of microbiology including study of microscopic organisms (bacteria, viruses, protozoans, algae, and fungi), the isolation, cultivation and identification of microbes, host-parasite relationships as they relate to disease, microbial and molecular genetics, growth and control of microbes, and the human immune response to microbes. Limited to students in the Joint Program in Applied Microbiology or the Joint Program in Environmental Science and Technology.
Prerequisite: BIOA01H3 and BIOA02H3
Breadth Requirement: Natural Sciences

IMCB02H3  Microbial Techniques
Practical applications of the concepts covered in IMCB01H3. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: BIOA01H3 and BIOA02H3
Corequisite: IMCB01H3
Breadth Requirement: Natural Sciences

IMCB03H3  Lab Instrumentation
The use and function of a variety of chemical instruments for the purpose of chemical analysis. Students learn to perform accurate measurements and/or analyses of experimental samples, and acquire proficiency in laboratory procedures of instrumental analysis as applied to QC, government, and industry standards. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: CHMA10H3 & CHMA11H3
Breadth Requirement: Natural Sciences

IMCB04H3  Food Microbiology
An introduction through theory and laboratory work to microorganisms of importance to the food and dairy industries. Quality control of raw materials and finished products, microbial metabolism, food and drug regulations and guidelines, theory of Good Manufacturing Practice for food manufacturers and Hazard Analysis and Critical Control Point Programs (HACCP). Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB01H3
Breadth Requirement: Natural Sciences

IMCB05H3  Microbiology Project
Practical experience in locating, collecting, and interpreting scientific information for the purpose of designing laboratory procedures. Students work individually under faculty supervision in a lab setting to perform the laboratory procedures and record the results and present a formal report. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB01H3 & IMCB02H3
Breadth Requirement: Natural Sciences

IMCB06H3  Pharmaceutical Microbiology
Quality control and quality assurance as they apply to the pharmaceutical industry, based on current government regulations. Students acquire knowledge of microbial production and assay methods, enumerate and identify microorganisms from commercial products, and evaluate the antimicrobial effectiveness of disinfectants, preservatives, and antibiotics. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB04H3
Breadth Requirement: Natural Sciences

IMCB07H3  Food Chemistry
The principles of food preparation science including HACCP, organoleptic evaluation and survey techniques, tools for the measurement of food, and the physics of food preparation. Food components and their sources, and an introduction to food additives and contamination. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: CHMB42H3
Breadth Requirement: Natural Sciences

IMCB08H3  Biochemistry and Applications I
Theory and practical applications of Biochemistry. Theory focuses on the most important molecules found in living systems. Practical applications include the preparation of soap, testing of food oils, identification of sugars, paper chromatography of amino acid, titration of amino acids, and isolation of casein from milks. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: CHMB42H3
Breadth Requirement: Natural Sciences

IMCC01H3  Advanced Microbiology Project
With individual consultation, guidance, and supervision, select and design a scientific protocol and perform a microbiology experiment, using researched information. A final thesis will be presented and defended orally. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB05H3 & IMCB06H3
Breadth Requirement: Natural Sciences
IMCC02H3  Microbial Genetics
Basic genetics using microorganisms, with concepts verified through lab experiments. Isolating and identifying nucleic acids, observing gene function, and effecting simple gene transfers. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB06H3
Breadth Requirement: Natural Sciences

IMCC03H3  Biochemistry and Applications II
Biochemistry and the theory of evolution; evidence for, and condition of, life during ancient times. Products, importance, function, classification, and control of enzymes. Energy balances of glycolysis and aerobic/anaerobic metabolism of carbohydrates and fats. Application of biochemistry to the growth and control of microorganisms and higher living forms. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB08H3
Breadth Requirement: Natural Sciences

IMCC04H3  Environmental Microbiology
During this course, students will study the basic principles of environmental microbiology through lectures and laboratory experiments including soil sampling and nutrient cycling. Students will also explore the application of biotechnology to environmental issues including bioremediation and the benefits and risks that genetically modified organisms pose to the environment. Limited to students in the Joint Program in Applied Microbiology.
Prerequisite: IMCB06H3
Breadth Requirement: Natural Sciences

STEB07H3 Analytical Chemistry and Applications
See the Environmental Science and Technology section of this Calendar for a full course description.
Arts, Culture and Media

Faculty List

- R. Bai, B.A., M.A. (Beijing Foreign Studies), Ph.D. (Illinois), Associate Professor
- W.R. Bowen, M.A., Ph.D. (Toronto), Associate Professor
- Y. Brotman, B.A. (Manitoba), B.Ed., M.V.S. (Toronto), Lecturer
- L. Carney, M.A. (Columbia), Associate Professor
- J. Dvorkin, B.A. Hon. (Alberta), M.A.(Toronto), M. Phil. (London), Lecturer
- B. Freeman, B.A., M.A., Ph.D., Assistant Professor
- T.A. Frost, B.A. (Saskatchewan), M.A. (City University, London), Lecturer
- M. Gervers, A.B. (Princeton), M.A. (Poitiers), Ph.D. (Toronto), Professor
- Y. Gu, M.Phil., Ph.D. (London), Associate Professor
- S.L. Helwig, B.A. (Guelph), M.A. (Toronto), Associate Professor, Teaching Stream
- M. Hlady, B.F.A. (Victoria), M.F.A. (York), Associate Professor
- D. Hlynsky, B.F.A. (Ohio State), Associate Professor, Teaching Stream
- W. Kwan, B.A. (Toronto), M.F.A. (Columbia), Associate Professor
- T. Lamie, B.A. (Dalhousie), M.F.A. (York), Associate Professor, Teaching Stream
- S.D. Lee, B.Mus., M.A. (Western), Ph.D. (UBC), Associate Professor
- A. MacDonald, B.A. (York), AOCAD, Associate Professor, Teaching Stream
- J. Mayo, M.A., Ph.D. (Toronto), Associate Professor
- K.A. McLeod, M.A.(McMaster), Ph.D. (McGill), Associate Professor
- M. Petit, M.A., Ph.D. (Colorado), Associate Professor, Teaching Stream
- A. Rapoport, Mus.M., Mus.Doc. (Toronto), Senior Lecturer
- A. Sanger, B.A. (Dartington), Ph.D. (Queen's, Belfast), Lecturer
- G. Scavizzi, M.A., Ph.D. (Turin), Professor Emeritus
- M.Q Schonberg, M.A., Ph.D. (Toronto), Professor Emeritus
- M.S. Shaw, M.A., Ph.D. (Bryn Mawr), Professor Emerita
- C. Smith, Lecturer
- P. Sperdakos, B.A. (McGill), M.A., Ph.D. (Toronto), Associate Professor
- A. Stanbridge, M.A. (Wolverhampton), Ph.D. (Carleton), Associate Professor
- E. Webster, B.A., M.A. (Toronto), Ph.D. (Case Western Reserve), Associate Professor, Teaching Stream
- L. Whiting, Dip.Op.Perf. (Toronto), Lecturer
- K. Wright, Lecturer

The Department of Arts, Culture and Media houses eight distinct disciplines: Art History, Arts Management, Journalism, Media Studies, New Media Studies, Music & Culture, Studio, and Theatre and Performance Studies. Faculty practice across a wide range of fields, and students benefit from specialized arts facilities such as the Leigha Lee Browne Theatre and the Doris McCarthy Gallery. The Department also hosts an array of special events and cultural programming through the year, and students are invited to join our departmental students’ association, ARTSA.

ACMA01H3, which is designed for all UTSC students, offers an overview of critical, historical and practice-based approaches to text, image, sound and performance. ACMB01H3, which is designed specifically for students who are enrolled in programs offered by the Department of Arts, Culture and Media, focuses on the development of the critical reading, thinking and writing skills that are necessary for research and inquiry into the critical, historical and practice-based approaches to text, image, sound and performance.

All ACM students are encouraged to take ACMB02H3.

Arts, Culture and Media Courses

ACMA01H3 Exploring Key Questions in Arts, Culture and Media

ACMA01H3 surveys the cultural achievements of the humanities in visual art, language, music, theatre, and film within their historical, material, and philosophical contexts. Students gain understanding of the meanings of cultural works and an appreciation of their importance in helping define what it means to be human.

Exclusion: (HUMA01H3)
Breadth Requirement: Arts, Literature & Language

ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

Academic study in the Department of Arts, Culture and Media is distinguished by critical, historical and practice-based approaches to text, image, sound and performance. This course focuses on critical reading, thinking and writing skills while introducing students to humanistic inquiry through lectures, readings, discussions, and attendance of campus performances and gallery exhibits. This is a writing intensive course that offers students regular constructive feedback on their work.

Prerequisite: Any 2.0 credits
Exclusion: ACMA01H3 (if taken before the 2016-17 academic year)
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in Specialist and Major offered by the Department of Arts, Culture & Media. Other students will be admitted as space permits.

**ACMB02H3 Methods of Inquiry and Investigation for ACM Programs**
An introduction to investigative research methods where the humanities and social sciences meet including visual, documentary, ethnographic, interview and other qualitative tools for analyzing social and cultural practices. Students develop skills to identify research inquiries, formulate approaches to investigate, locate, collect and learn from data, analyze evidence, and communicate results.
Prerequisite: ACMB01H3
Exclusion: (ACMA02H3)
Breadth Requirement: Social & Behavioural Sciences

**ACMC01H3 ACMEE Applied Practice I**
A study of the arts, culture and/or media sector through reflective practice. Students will synthesize their classroom and work place / learning laboratory experiences in a highly focused, collaborative, and facilitated way through a series of assignments and discussions.
Prerequisite: 9.0 credits including VPAB16H3 and VPAB17H3 (or its equivalent with instructor permission) and successful completion of required Field Placement Preparation Activities
Corequisite: Field Placement I (may be taken as a prerequisite with Program Director's permission)
Enrolment Limits: 10
Breadth Requirement: Arts, Literature & Language

**ACMD01H3 ACMEE Applied Practice II**
An advanced study of the arts, culture and/or media sector through reflective practice. Students will further engage with work places as "learning laboratories", and play a mentorship role for students in earlier stages of the experiential education process.
Prerequisite: ACMC01H3
Corequisite: Field Placement II (may be taken as a prerequisite with Program Director's permission)
Enrolment Limits: 10
Breadth Requirement: Arts, Literature & Language

**ACMD02H3 ACMEE Applied Practice III**
An advanced study of the arts, culture and/or media sector through reflective practice. Students will further synthesize their classroom and work place / learning laboratory experiences, and play a mentorship role for students in earlier stages of the experiential education process.
Prerequisite: ACMD01H3
Corequisite: Field Placement III (may be taken as a prerequisite with Program Director's permission)
Enrolment Limits: 10
Breadth Requirement: Arts, Literature & Language

**ACMD91H3 Supervised Readings**
Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. The student should submit to the instructor a statement of objectives and proposed content for the course; this should be done by 15 April for 'F' courses and by 1 December for 'S' courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Prerequisite: 3.0 credits at the B-level in the Department of Arts, Culture and Media.
Exclusion: (HUMD91H3)

**ACMD92H3 Supervised Readings**
Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. The student should submit a statement of objectives and proposed content for the course to the instructor by 15 April for 'F' and 'Y' courses and by 1 December for 'S' courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Prerequisite: 3.0 credits at the B-level in the Department of Arts, Culture and Media.
Exclusion: (HUMD92H3)

**ACMD93Y3 Supervised Readings**
Independent study of an advanced and intensive kind, under the direction of a faculty member. The material studied should bear some significant relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in other courses. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. The student should submit a statement of objectives and proposed content for the course to the instructor by 15 April for 'F' and 'Y' courses and by 1 December for 'S' courses. If the proposal is approved, two faculty members from relevant disciplines will supervise and evaluate the work.
Prerequisite: 3.0 credits at the B-level in the Department of Arts, Culture and Media.
Exclusion: (HUMD93Y3)
Art History and Visual Culture

Program Director: E. Webster Email: webster@utsc.utoronto.ca

Art History and Visual Culture at UTSC focuses on the global and contemporary and also gives you a solid grounding in approaches to visual materials produced across time, cultures, classes, gender, and geography. You will learn to look, read and write critically about the visual, not only in the classroom, but also through real-world learning experience in galleries and museums and in other urban situations. You will understand how and why histories are written, how representations are formed, and how artists, critics, curators, dealers, and art historians (in other words, art world players) enter a shared discourse. The courses reveal the multiplicity of perspectives with which art may be approached and appreciated. Using recent methodologies that consider the works of art in the specific visual cultures of their day and in the social, political, and economic contexts in which the artists lived and worked.

The Art History and Visual Culture Study Guide is available at:

Planning a Program in Art History and Visual Culture

Guidelines for first year course selection:
Students intending to complete a Major or Minor in Art History and Visual Culture should include VPHA46H3 in their first year course selection. VPHA46H3 familiarizes students with the necessary historical, theoretical, and methodological foundations of the discipline of Art History specifically and Humanities more generally. Moreover, it will introduce students to the kinds of reading, research and writing skills they will be expected to develop in the program.

Students are strongly encouraged to enrol in VPHB39H3 and ACMB01H3 early in their program of study, and certainly by the beginning of their second year of study. Both of these courses further focus studies to address deeper questions in the disciplines of Art History and Visual Culture.

Following the completion of these three foundational courses, students are encouraged to build depth of learning in focused areas of concentration. The table below identifies the four areas of focus within Art History and Visual Culture: Creative Cities, Spectacle and Display, Dialogues with History, and Constructing Identities. Students are encouraged to choose one or two of these areas.

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Art History and Visual Culture Programs

MAJOR PROGRAM IN ART HISTORY AND VISUAL CULTURE (ARTS)

Undergraduate Advisor Email: art-history-program-supervisor@utsc.utoronto.ca

Program Requirements
This program requires the completion of 7.0 credits in Art History and Visual Culture (VPH) as follows:

1. Courses at the A-level (0.5 credit):
   VPHA46H3 Ways of Seeing: Introduction to Art Histories

2. Courses at the B-level (1.0 credit):
   VPHB39H3 Ten Key Words in Art History: Unpacking Methodology
   ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

3. Courses at the C-level (1.5 credits):
   VPHC49H3 Advanced Studies in Art Theory
   VPHC54H3 Art Writing
   VPHC72H3 Art, the Museum, and the Gallery

4. Courses at the D-level (0.5 credit):
   VPHD48H3 Advanced Seminar in Art History and Visual Culture

5. 3.5 additional credits in VPH courses, including:
   (i) At least 1.5 credit must be in courses at the C- or D-level;
   (ii) Must include diversity in the time-period and cultural geography;
   (iii) Must include at least 1.0 credit dealing with periods prior to 1800;
   (iv) Must include at least 1.0 credit dealing with periods after 1800; and
   (v) Must include 0.5 credit dealing with the arts of Asia, Africa, or the Diaspora

   Courses dealing with periods prior to 1800: VPHB53H3, VPHB63H3, VPHB64H3, VPHB74H3, VPHC41H3, VPHC42H3, VPHC53H3, VPHC63H3, (VPHD44H3)

   Courses dealing with periods after 1800: VPHB58H3, VPHB59H3, VPHC45H3, VPHC68H3, VPHC73H3, (VPHD43H3), as well as (VPAC47H3) and (VPAC48H3).

   Courses on the art of Africa: VPHB50H3, (VPHB65H3).

   Courses on the art of Asia: VPHB73H3, VPHB77H3, VPHC74H3.

   Courses in which content may vary, and which may deal with the art of any place or period: VPHB68H3, VPHB78H3, VPHB79H3, VPHC49H3, (VPHC51H3), VPHC54H3, VPHC75H3 and VPHD48H3.

   Students interested in curatorial studies courses should consider the Minor in Curatorial Studies (Arts).

MINOR PROGRAM IN ART HISTORY AND VISUAL CULTURE (ARTS)

Undergraduate Advisor Email: art-history-program-supervisor@utsc.utoronto.ca

Program Requirements
This program requires the completion of 4.0 credits in Art History and Visual Culture (VPH) as follows:

1. Courses at the A-level (0.5 credit):
   VPHA46H3 Ways of Seeing: Introduction to Art Histories

2. Courses at the B-level (2.0 credit):
   ACMA01H3 Critical Reading, Thinking and Writing for ACM Programs
   VPHB39H3 Ten Key Words in Art History: Unpacking Methodology
   An additional 1.0 credit at the B-level in VPH courses
3. Courses at the C- and or D-level (1.5 credits):
1.5 credits at the C- or D-level in VPH courses

Art History and Visual Culture Courses

**VPHA46H3 Ways of Seeing: Introduction to Art Histories**
How and why are objects defined as Art? How do these definitions vary across cultures and time periods? Studying different approaches to writing art history and considering a wide range of media from photography to printmaking and installation arts.
Exclusion: FAH100Y, FAH101H
Breadth Requirement: Arts, Literature & Language

**VPHB39H3 Ten Key Words in Art History: Unpacking Methodology**
Key concepts in art history, including intention, meaning, style, materiality, identity, production, reception, gender, visuality, and history. Students will explore critical questions such as whether and how to read artist's biographies into their art. This course helps students understand the discipline and develops critical thinking and research skills required in advanced courses.
Prerequisite: VPHA46H3 or ACMA01H3
Exclusion: FAH102H
Breadth Requirement: Arts, Literature & Language

**VPHB50H3 Africa Through the Photographic Lens**
The centrality of photographic practice to African cultures and histories from the period of European imperialism, the rise of modernist "primitivism" and the birth of ethnology and anthropology to contemporary African artists living on the continent and abroad.
Prerequisite: VPHA46H3 or ACMA01H3 or AFSA01H3
Breadth Requirement: Arts, Literature & Language

**VPHB53H3 Medieval Art**
The origins of European artistic traditions in the early Christian, Mediterranean world; how these traditions were influenced by classical, Byzantine, Moslem and pagan forms; how they developed in an entirely new form of artistic expression in the high Middle Ages; and how they led on to the Renaissance.
Prerequisite: VPHA46H3
Exclusion: FAH215H, FAH216H
Breadth Requirement: Arts, Literature & Language

**VPHB58H3 Modern Art and Culture**
A study of nineteenth and twentieth century arts and visual media, across genres and cultures. What did modernity mean in different cultural contexts? How is 'modern' art or 'modernism' defined? How did the dynamic cultural, economic, and socio-political shifts of the globalizing and industrializing modern world affect the visual arts and their framing?
Prerequisite: VPHA46H3
Exclusion: FAH245H
Breadth Requirement: Arts, Literature & Language

**VPHB59H3 Current Art Practices**
Shifts in theory and practice in art of the past fifty years. Studying selected artists' works from around the world, we explore how notions of modern art gave way to new ideas about media, patterns of practice, and the relations of art and artists to the public, to their institutional contexts, and to globalized cultures.
Prerequisite: VPHA46H3 or VPHB39H3
Breadth Requirement: Arts, Literature & Language

**VPHB63H3 Fame, Glory and Spectacle: 14th-16th Century Art in Italy**
This course is an introduction to art and visual culture produced in Italy ca. 1350-1550. Students will explore new artistic media and techniques, along with critical issues of social, cultural, intellectual, theoretical and religious contexts that shaped the form and function of art made during this era.
Prerequisite: VPHA46H3
Exclusion: FAH230H
Breadth Requirement: Arts, Literature & Language

**VPHB64H3 Baroque Visions**
This course introduces the art and culture of 17th century Europe and its colonies. Art of the Baroque era offers rich opportunities for investigations of human exploration in geographic, spiritual, intellectual and political realms. We will also consider the development of the artist and new specializations in subject and media.
Prerequisite: VPHA46H3
Exclusion: FAH231H, FAH279H
Recommended Preparation: VPHB63H3 or VPHB74H3
Breadth Requirement: Arts, Literature & Language

**VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts**
This course explores the relationship between visuality and practices of everyday life. It looks at the interaction of the political, economic and aesthetic aspects of mass media with the realm of "fine" arts across history and cultures. We will explore notions of the public, the mass, and the simulacrum.
Prerequisite: VPHA46H3
Breadth Requirement: Arts, Literature & Language

**VPHB73H3 Visualizing Asia**
A survey of the art of China, Japan, Korean, India, and Southeast Asia. We will examine a wide range of artistic production, including ritual objects, painting, calligraphy, architectural monuments, textile, and prints. Special attention will be given to social contexts, belief systems, and interregional exchanges.
Same as GASB73H3
Prerequisite: ACMA01H3 or VPHA46H3 or GAS01H3
Exclusion: GASB73H3, FAH260H
Breadth Requirement: Arts, Literature & Language

**VPHB74H3 Art in Early Modern Europe: Renaissances Outside of Italy**
This course explores the rich visual culture produced in northern and central Europe 1400-1600. Topics such as the rise of print culture, religious conflict, artistic identity, contacts with other cultures and the development of the art market will be explored in conjunction with new artistic techniques, styles and materials.
Prerequisite: VPHA46H3
Exclusion: FAH230H, FAH274H
Breadth Requirement: Arts, Literature & Language
VPHB77H3 Modern Asian Art
An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingular practices, and multiple modernism.
Same as GASB77H3
Prerequisite: ACM01H3 or VPHA46H3 or GAS01H3
Exclusion: GASB77H3, FAH262H
Breadth Requirement: Arts, Literature & Language

VPHB78H3 Our Town, Our Art: Local Collections I
Local arts institutions are often taken for granted but understanding how and why collections are formed, why they are significant, and how they relate to larger art historical contexts provides important object-based learning opportunities. Students will explore these using a focused collection in the Royal Ontario Museum, the Aga Khan Museum or the Textile Museum.
Prerequisite: VPHA46H3
Breadth Requirement: Arts, Literature & Language
NOTE: Some classes will be held at the museum; students should be prepared to travel.

VPHB79H3 Our Town, Our Art: Local Collections II
Local arts institutions are often taken for granted but understanding how and why collections are formed, why they are significant, and how they relate to larger art historical contexts provides important object-based learning opportunities. Students will explore these using a focused collection in the Art Gallery of Ontario.
Prerequisite: VPHA46H3
Breadth Requirement: Arts, Literature & Language
NOTE: Some classes will be held at the museum; students should be prepared to travel.

VPHC41H3 Carolingian and Romanesque Art and Architecture
Major artistic and architectural monuments of Europe from the Carolingian renaissance to the renaissance of the twelfth century, considered in relation to geographical context, to monasticism and pilgrimage, to artistic developments of the contemporary Mediterranean world, and to the art and architecture of the later Roman Empire, Byzantium and Armenia, Islam and the art of the invasion period.
Prerequisite: VPHB53H3
Exclusion: (VPHB42H3), FAH215H
Breadth Requirement: Arts, Literature & Language

VPHC42H3 Gothic Art and Architecture
Current scholarship is expanding and challenging how we decide "what is Gothic?" We will examine a variety of artworks, considering artistic culture, social, cultural, and physical contexts as well. Style, techniques, patronage, location in time and space, and importance of decoration (sculpture, stained glass, painting, tapestry) will be among topics discussed.
Prerequisite: VPHB53H3 and ACM801H3
Exclusion: FAH328H, FAH351H (UTM only), (FAH369H)
Breadth Requirement: Arts, Literature & Language

VPHC45H3 Seminar in Modern and Contemporary Art
Special topics in twentieth-century painting and sculpture. The subject will change from time to time. After introductory sessions outlining the subject and ways of getting information about it, seminar members will research and present topics of their choice.
Prerequisite: 1.0 credit in modern art history at the B-level.
Breadth Requirement: Arts, Literature & Language

VPHC49H3 Advanced Studies in Art Theory
The class will read selected recent cultural theory and art theory and consider its implications for a variety of works of art, and will investigate selected exhibition critiques and the critical discourse surrounding the oeuvres of individual artists.
Prerequisite: VPHA46H3 and VPHB39H3 and ACM801H3
Corequisite: 1.0 credit at the B-level in VPH and/or VPS courses
Breadth Requirement: Arts, Literature & Language

VPHC52H3 Ethiopia: Seeing History
This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments.
Same as AFSC52H3 and HISC52H3
Prerequisite: [1.0 credit in History] or [VPHA46H3 and ACM801H3 and an additional 1.0 credit in VPH courses]
Exclusion: AFSC52H3, HISC52H3
Breadth Requirement: History, Philosophy & Cultural Studies

VPHC53H3 The Silk Routes
The Silk Routes were a lacing of highways connecting Central, South and East Asia and Europe. Utilizing the Royal Ontario Museum's collections, classes held at the Museum and U of T Scarborough will focus on the art produced along the Silk Routes in 7th to 9th century Afghanistan, India, China and the Taklamakhan regions.
Same as GASC53H3
Prerequisite: 1.0 credit in art history or in Asian or medieval European history.
Exclusion: GASC53H3
Breadth Requirement: Arts, Literature & Language

VPHC54H3 Art Writing
Art criticism as a complex set of practices performed not only by critics, art historians, curators and the like, but also by artists (and collectors). The traditional role of art critics in the shaping of an art world, and the parallel roles played by other forms of writing about art and culture (from anthropology, sociology, film studies).
Prerequisite: 2.0 full credits at the B-level from VPA, VPH, and/or VPS
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language

VPHC56H3 Explorations in Early Modern Art
This seminar-format course will offer students the opportunity to investigate critical theories and methodologies of the early modern period (roughly 1400-1700). Focusing on such topics as a single artist, artwork or theme, students will become immersed in an interdisciplinary study that draws on impressive local materials from public museum and library collections.
Prerequisite: VPHA46H3 & [one of VPHB63H3 or VPHB64H3 or VPHB74H3].
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language
### VPHC68H3  Art in Global Cities
This course looks at the global city as a hub for the creation of visual, performing arts and architecture. How have cyberspace and increased transnational flows of art and artists changed the dynamic surrounding urban arts? What are the differences between the arts within the modern and global contemporary city?

**Prerequisite:** VPHB58H3 or VPHB59H3  
**Exclusion:** (VPHC52H3)  
**Breadth Requirement:** Arts, Literature & Language

### VPHC72H3  Art, the Museum, and the Gallery
Art and the settings in which it is seen in cities today. Some mandatory classes to be held in Toronto museums and galleries, giving direct insight into current exhibition practices and their effects on viewer’s experiences of art; students must be prepared to attend these classes.

**Same as CRTC72H3**  
**Prerequisite:** ACMB01H3 and CRTB01H3 and CRTB02H3  
**Exclusion:** CRTC72H3  
**Enrolment Limits:** 15  
**Breadth Requirement:** Arts, Literature & Language

### VPHC73H3  Home, Away and In Between: Artists, Art, and Identity
The interplay among visual, performing and literary arts and experience of exile, diaspora, displacement and placemaking: how the nomadic, transitional nature of today’s world influences contemporary artists’ practices. Readings from art history, visual anthropology, cultural studies, ethnic studies and literary criticism. Considerations of memory, autobiography, community and liminality in relation to experiences of local Canadian artists.

**Exclusion:** (VPAB09H3)  
**Breadth Requirement:** Social & Behavioural Sciences

### VPHC74H3  A Tale of Three Cities: Introduction to Contemporary Art in China
An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China’s persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change.

**Same as GASC74H3**  
**Prerequisite:** 2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3, VPHB73H3, HISB58H3, (GASB31H3), GASB33H3, or (GASB35H3).  
**Exclusion:** GASC74H3  
**Breadth Requirement:** Arts, Literature & Language

### VPHC75H3  The Artist, Maker, Creator
This course focuses on the ideas, career and œuvre of a single artist. Exploration and comparison of works across and within the context of the artist’s output provides substantial opportunities for deeper levels of interpretation, understanding and assessment. Students will utilize and develop research skills and critical methodologies appropriate to biographical investigation.

**Prerequisite:** VPHB39H3 and ACMB01H3 and [an additional 1.0 credit at the B-level in Art History, Studio or Arts Management courses]  
**Breadth Requirement:** Arts, Literature & Language

### VPHD42Y3  Supervised Reading in Art History
A course offering the opportunity for advanced investigation of an area of interest; for students who are nearing completion of art history programs and who have already acquired independent research skills. Students must locate a willing supervisor and topics must be identified and approved by the end of the previous term.

**Prerequisite:** 1.0 credit at the C-level in art history. Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

### VPHD48H3  Advanced Seminar in Art History and Visual Culture
What is art history and visual culture? What do we know, and need to know, about how we study the visual world? This capstone course for senior students will examine the ambiguities, challenges, methods and theories of the discipline. Students will practice methodological and theoretical tenets, and follow independent research agendas.

**Prerequisite:** 1.5 credits at the C-level in VPH courses  
**Exclusion:** FAH470H  
**Breadth Requirement:** Arts, Literature & Language  
**NOTE:** Priority will be given to students in the Major and Minor in Art History and Visual Culture. Additional students will be admitted as space permits.
Arts Management

Arts Management Programs

SPECIALIST PROGRAM IN ARTS MANAGEMENT (ARTS)

Program Director: S.L. Helwig (416-287-7160) Email: arts-management-program-director@utsc.utoronto.ca

Arts Management is designed for students with an interest both in the arts and in the business of the arts. It provides students with a solid grounding in the knowledge and skills necessary for fulfilling professional careers in producing, presenting and exhibiting organizations (theatres, opera companies, orchestras, dance companies, galleries, museums), arts councils, arts service organizations, government, and many other related areas, or for graduate studies in disciplines such as Arts Management, Cultural and Public Policy, Arts Education and Museum or Curatorial Studies.

While a majority of the academic work in the program is based on the not-for-profit arts model, the skills that UTSC’s arts management students develop are transferrable skills: critical thinking, organizational development, marketing, fundraising, public relations and public policy can be applied to many fields, and graduates may eventually opt to work in for-profit cultural industries such as commercial music, film and television, or even non-arts sectors that require similar abilities. For further information, see www.utsc.utoronto.ca/artsmanagement/

The Standard Stream of the program is designed to give students a broad and deep understanding of Arts Management at the undergraduate level through academic courses but without full field placements. This stream is well suited to students who have past or alternate practical experience in arts management.

The Field Placement Stream of the program is designed to enhance the students’ understanding of Arts Management through substantial exposure to its practice in a minimum of two 300-hour not-for-credit placements.

Program Admission:
Enrolment in the program is limited and entry is competitive. Admissions are granted on the basis of applicants’ academic performance, background in one or more of the arts, and demonstrated interest and potential ability in Arts Management as discerned through an interview. For the Standard Stream, students must have a minimum cumulative GPA of 2.5, both overall and in Arts Management-specific courses. For the Field Placement Stream, students must have a minimum cumulative GPA of 3.0, both overall and in Arts Management-specific courses.

Program Requirements:
This program requires the completion of a total of 15.0 credits. Students complete a core of 6.0 credits in Arts Management courses, 1.5 credits in Management courses, 6.0 credits in one or more arts discipline(s), and 1.5 credits specific to either the Standard Stream or the Field Placement Stream.

Students must maintain a minimum cumulative grade point average (CGPA), both overall and in Arts Management-specific courses: 2.5 for the Standard Stream and 3.0 for the Field Placement Stream. Continuous consultation with the Program Director is strongly encouraged for all students in each year of their program.

Core (13.5 credits)

1. Arts Management Courses (6.0 credits)
VPAA06H3 Visual and Performing Arts Management in the Digital Age
VPAA10H3 Introduction to Arts Management
VPAA12H3 Audience and Resource Development
VPAB07H3 Equity & Diversity in Arts Organizations
VPAB13H3 Financial Management for Arts Managers
VPAB16H3 Managing and Leading in Cultural Organizations
VPAB17H3 From Principles to Practices in Arts Management
VPAC13H3 Planning and Project Management in the Arts and Cultural Sector
VPAC15H3 Cultural Policy
VPAC16H3 Legal and Human Resource Issues in Arts Management
[VPAC17H3 Arts Marketing OR VPAC18H3 Fundraising and Development in the Arts]
VPAD12H3 Senior Seminar in Arts Management

2. Management Courses (1.5 credits)
MGTA01H3/(MGTA03H3) Introduction to Business
MGTA02H3/(MGTA04H3) Managing the Business Organization
0.5 credit from Management or Economics at the C- or D- level (unless an alternative is formally approved in advance by the Arts Management Program Director)

Note: Arts Management students have access to the following Management courses via ROSI: MGHC23H3, MGMC30H3, MGTC33H3, MGTC44H3 and MGTD45H3. Arts Management students interested in other Management courses must approach the Arts Management Program Director early in the enrolment period to discuss suitability and to request access. Appropriate prerequisite knowledge is required for all Management courses.
3. Arts Courses (6.0 credits)

[Six full credits from within the Major program in one of the artistic disciplines within the Department of Arts, Culture and Media (Art History, Music and Culture, Studio and Theatre & Performance Studies). At least one full credit of these must be at the C- or D-level.] OR

[With the prior written approval of the Arts Management Program Director, students may tailor a coherent group of courses to accommodate their special interests and particular career goals. At least one full credit must be at the C- or D-level.]

**Note:** Because the completion of a Major program in a chosen artistic field is particularly valuable for students contemplating graduate studies and certain careers related to that subject, students may wish to add the Major Subject POSt and take additional arts courses to fulfill the Major requirement. Alternatively, one or more Minor program(s) may be valuable in certain fields of work and further studies.

A. Standard Stream

In addition to the Core requirements above, students must complete an additional 1.5 credits:

4. (1.5 credits)

- VPAB05H3 Introduction to Contemporary Cultural Theory
- Two courses (1.0 credit) from the following:
  - VPAB15H3 Arts Education and Outreach
  - [VPAC17H3 Arts Marketing OR VPAC18H3 Fundraising and Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]
  - VPAC21H3 Special Topics in Arts Management I
  - VPAC22H3 Special Topics in Arts Management II
  - VPAD07H3 Agency & Pluralism in Social & Cultural Transformations
  - VPAD14H3 Independent Studies in Arts Management

**Note:** one of the D-level choices is required if a D-level course is not taken as a part of section 2 (Management Courses) or section 3 (Arts Courses).

B. Field Placement Stream

4. Work Term Placements

In addition to the Core requirements above, students must complete a minimum of two 300-hour not-for-credit work term placements:

- Field Placement I
- Field Placement II

5. (1.5 credits)

- ACMC01H3 ACMEE Applied Practice I (to be taken concurrently with, or after, Field Placement I)
- ACMD01H3 ACMEE Applied Practice II (to be taken concurrently with, or after Field Placement II)
- 0.5 credit from the following:
  - VPAB05H3 Introduction to Contemporary Cultural Theory
  - VPAB15H3 Arts Education and Outreach
  - [VPAC17H3 Arts Marketing OR VPAC18H3 Fundraising and Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]
  - VPAC21H3 Special Topics in Arts Management I
  - VPAC22H3 Special Topics in Arts Management II
  - VPAD07H3 Agency & Pluralism in Social & Cultural Transformations
  - VPAD14H3 Independent Studies in Arts Management
  - ACMC02H3 ACMEE Applied Practice III (to be taken in connection with an optional “Field Placement III”)

Courses in the first two years of the program

The first year of study would normally consist of 5.0 full credits (10 courses - five in each of the Fall and Winter semesters) including VPAA10H3, VPAA12H3, VPAA06H3, MGTA01H3, MGTA02H3, at least three courses from the “Arts Courses” section of the program requirements, and electives. ACMB01H3 can be taken as one of the “Arts Courses” in the Winter semester of the first year, or during second year. The second year of study would normally consist of 5.0 full credits (10 courses) including VPAB13H3, VPAB16H3 and VPAB17H3, ACMB01H3 (if not already taken, B-level courses from the “Arts Courses” program requirement, and electives. Arts Management students are encouraged to consider ACMB02H3 as one of their elective choices.
SPECIALIST (CO-OPERATIVE) PROGRAM IN ARTS MANAGEMENT (ARTS)

Enrolment in the Specialist (Co-operative) program in Arts Management has been suspended indefinitely. Students who enrolled prior to the 2013 Summer Session should refer to the 2012-13 UTSC Calendar.

Arts Management Courses

VPAA06H3 Visual and Performing Arts Management in the Digital Age
An introduction to the use of computers in the visual and performing arts. Demonstrations, workshops and an introductory survey of applications and usage will illustrate current standards and consider future possibilities of the handling of information (including text, images, sound and data). Projects will allow opportunities for practical experience.
Exclusion: (CSCA02H3)
Recommended Preparation: VPAA10H3
Enrolment Limits: 40. Priority will be given to students in Arts Management, then other ACM programs (Arts, Culture & Media Programs) and Humanities and Social Sciences (Co-op)
Breadth Requirement: Arts, Literature & Language

VPAA10H3 Introduction to Arts Management
An introduction to the theories and practices of arts management primarily within the not-for-profit sector. It is a general survey course that will introduce the broad context of arts in Canadian society and provide an overview of the artistic and administrative issues currently faced by the arts and cultural community.
Breadth Requirement: Arts, Literature & Language

VPAA12H3 Audience and Resource Development
An introduction to the essential and interconnected areas of marketing and fundraising in the arts.
Prerequisite: VPAA10H3
Exclusion: (VPAB12H3), (VPAB14H3)
Breadth Requirement: Arts, Literature & Language

VPAB05H3 Introduction to Contemporary Cultural Theory
An introduction to key concepts and issues in contemporary cultural theory. Emphasizes critical reading, thinking, and writing. Students will engage with a wide range of theoretical and methodological developments in the study of art and culture, including, cultural studies, feminism, and postmodernism.
Prerequisite: [4.0 credits, including VPAA10H3] or [SOCL58H3 and an additional 4.0 credits]
Breadth Requirement: History, Philosophy & Cultural Studies

VPAB07H3 Equity and Diversity in Arts Organizations
The importance of equity and diversity within Canadian cultural values, and how these challenges are advanced within arts organizations. The development and use of critical tools to assess the values, principles and policies of arts organizations, and strategies aimed at changing these organizations so that they are non-discriminatory and inclusive.
Prerequisite: 4.0 full credits, including VPAA10H3
Exclusion: (VPAD06H3)
Recommended Preparation: VPAB05H3
Breadth Requirement: Social & Behavioural Sciences

VPAB13H3 Financial Management for Arts Managers
An introduction to financial management issues faced by arts and cultural managers.
The topics include an introduction to basic accounting concepts, financial statement preparation and analysis, internal control and management information systems, budgeting and programming, cash and resource management, and various tax-related issues.
Prerequisite: VPAA10H3
Exclusion: MGAB03H3
Recommended Preparation: VPAA12H3 or [(VPAB12H3) and (VPAB14H3)]
Breadth Requirement: Quantitative Reasoning

VPAB15H3 Arts Education and Outreach
An introduction to public programming, community arts, and education within the arts organization and beyond. This course will consider the practical and the broader historical, social and policy issues related to the relationship between arts programming and audiences.
Prerequisite: At least 4.0 credits including VPAA10H3
Breadth Requirement: History, Philosophy & Cultural Studies

VPAB16H3 Managing and Leading in Cultural Organizations
An introduction to the theories and practice of leadership, employee and volunteer management, and organizational behaviour as they apply to the not-for-profit arts sector.
Prerequisite: VPAA10H3 and VPAA12H3
Breadth Requirement: Arts, Literature & Language
NOTE: VPAA12H3 may be taken as a co-requisite with the express permission of the instructor.

VPAB17H3 From Principles to Practices in Arts Management
An introduction to the real-world application of knowledge and skills in arts and arts-related organizations. This course allows students to build on foundational studies and develop discipline-specific knowledge and skills through experiential methods (including a short-term field placement) and objective study.
Prerequisite: VPAA12H3 and VPAB16H3
Enrolment Limits: 25; Restricted to students in the Specialist in Arts Management.
Breadth Requirement: Arts, Literature & Language
NOTE: Both VPAA12H3 and VPAB16H3 can be taken as co-requisites with the permission of the instructor.

VPAC13H3 Planning and Project Management in the Arts and Cultural Sector
This course provides a broad foundation of project management and planning knowledge and skills. Topics such as project and special event management (including tours, festivals, etc.), and strategic and business planning (including entrepreneurship) will be discussed in the context of organizational processes.
Prerequisite: 8.0 credits including VPAB13H3, VPAB16H3 and ACMB01H3
Breadth Requirement: Arts, Literature & Language
VPAC15H3 Cultural Policy
A survey of the principles, structures and patterns of cultural policy and arts funding, both nationally and internationally. The course will explore a wide range of cultural policy issues, addressing both the subsidized arts and cultural industries sectors, and exploring the strengths and weaknesses of particular policy approaches.
Prerequisite: [8.0 credits, including VPAA10H3 and VPAB05H3 and ACMB01H3] or [8.0 credits, including SOCB58H3 and registration in the Minor in Culture, Creativity, and Cities]
Breadth Requirement: Arts, Literature & Language

VPAC16H3 Legal and Human Resources Issues in Arts Management
This course is a study of legal and practical human resource issues from an arts management perspective. Topics will include copyright, freedom of expression, censorship, and issues related to labour relations and contracts in the cultural sector.
Prerequisite: 8.0 credits including VPAA10H3 and ACMB01H3
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

VPAC17H3 Arts Marketing
An advanced study of marketing within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to be responsive to varied market groups and changing market environments and successfully bring art and audiences together.
Prerequisite: VPAA10H3 and VPAA12H3 and ACMB01H3
Recommended Preparation: VPAA06H3
Breadth Requirement: Arts, Literature & Language

VPAC18H3 Fundraising and Development in the Arts
An advanced study of fundraising and resource development within the arts and cultural sector. This course facilitates a sophisticated understanding of the knowledge and skills required for an arts manager to develop and increase contributed revenue to support the artistic mission of cultural organizations.
Prerequisite: VPAA12H3 and VPAB13H3 and VPAB16H3 and ACMB01H3
Breadth Requirement: Arts, Literature & Language

VPAC21H3 Special Topics in Arts Management I
Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.
Prerequisite: 10.0 credits, including VPAA10H3, VPAA12H3, VPAB16H3, and ACMB01H3
Exclusion: (VPAD13H3)
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language

VPAC22H3 Special Topics in Arts Management II
Special topics for intensive practical, theoretical and/or experiential study of some specific aspects of Arts Management. The topic(s) to be explored in this course will change from session to session.
Prerequisite: 10.0 credits, including VPAA10H3, VPAA12H3, VPAB16H3, and ACMB01H3
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language

VPAD07H3 Agency and Pluralism in Social and Cultural Transformations
Transformations in social and cultural institutions have been achieved through the agency of individuals who have embedded the values of pluralism in their personal and professional lives. Students will explore model examples and will develop projects they might use to advance this aim in a variety of professional situations.
Prerequisite: (VPAB06H3) or VPAB07H3
Breadth Requirement: Social & Behavioural Sciences

VPAD12H3 Senior Seminar in Arts Management
A capstone course providing the opportunity for students to reflect on and synthesize the knowledge and skills gained in previous courses and related experiences.
Prerequisite: At least 16.0 full credits including VPAC13H3.
Exclusion: Restricted to students in the Specialist program in Arts Management
NOTE: This course should be taken in the final year of study; advance permission of the instructor is required for any other timing.

VPAD14H3 Independent Studies in Arts Management
A directed research and/or project-oriented course for students who have demonstrated a high level of academic maturity and competence. Qualified students will have the opportunity to investigate an area of interest to both student and the Director in traditional or emerging subjects related to the field of Arts Management.
Prerequisite: At least 1 full credit in Arts Management at the C-level.
Written consent and approval of a formal proposal in the approved format must be obtained from the supervising instructor and Program Director by the last date of classes in the previous academic session.
Exclusion: MGTD80H3
Enrolment Limits: 6
Astronomy

Astronomy List

- P. Artymowicz, M.Sc. (Warsaw University), Ph.D. (N. Copernicus Astron. Center, Polish Academy of Sciences), Professor
- J. Bayer Carpintero, B.Sc. (Los Andes, Bogota), M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- C.C. Dyer, B.Sc. (Bishop's), M.Sc., Ph.D. (Toronto), Professor Emeritus
- J.P. Lowman, B.Sc. (Toronto), M.Sc., Ph.D. (York, Canada), Associate Professor
- K. Menou, B.Sc. (Angers), M.Sc. (Toulouse), Ph.D. (Paris XI) Associate Professor
- H. Rein, M.A.St. (Cambridge), Ph.D (Cambridge), Assistant Professor
- D. Valencia, B.Sc., M.Sc. (Toronto), Ph.D. (Harvard), Assistant Professor

Astronomy is at the same time one of the oldest and one of the most dynamic areas of science. It is the attempt to understand the environment in which humanity developed, from the solar system in which we find our direct and recent origins, to the largest distance scales in the universe typified by quasars and the big bang, in which we must search for the very origins of structure ranging from the solar system to the largest structures, such as large clusters of galaxies and cosmic voids. The past four decades have seen startling discoveries, such as the cosmic microwave background radiation, that have given us both new understanding of the universe and made us more aware of the problems still facing us in attaining a deeper understanding. The last decade has witnessed an explosion in the number of known planets, with more than five hundred already discovered in orbit around other stars in our Galaxy. In addition there has recently been a significant trend towards the integration of many of the ideas of modern high energy physics into astronomy, with particularly interesting developments concerning ideas about the very first seconds in the evolution of our universe. As more planets are discovered there promises to be an even stronger collaborative effort with disciplines such as chemistry and biology to discover the possible origins of life.

The full range of modern astronomical topics is covered in the introductory courses ASTA01H3 and ASTA02H3 at a level suitable for students without mathematical background. In addition, the course ASTB03H3 is intended for students who have taken no previous astronomy, and covers the history of modern astronomy. It is intended to provide a historical perspective on modern astronomy, and by example, an introduction to the evolution of a number of modern scientific areas. For students wishing to further their study in astronomy, there are a number of higher level courses, which are integral components of Major and Specialist programs in Physics and Astrophysics, and related areas. Refer to the Physics and Astrophysics section of this Calendar for details of these courses and these programs.

Service Learning and Outreach (Previously known as Science Engagement)
For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

Astronomy Programs

SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)
See the Physical Sciences section of this Calendar for program requirements.

SPECIALIST PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)
See the Physics and Astrophysics section of this Calendar for program requirements.

MAJOR PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)
See the Physics and Astrophysics section of this Calendar for program requirements.

MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)
Supervisor: J. Lowman (416-208-4880) Email: lowman@utsc.utoronto.ca

Program Requirements:
Students must complete 5.0 full credits as follows:
ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
MATA30H3 Calculus I for Physical Sciences
MATA23H3 Linear Algebra I
[MATA36H3 Calculus II for Physical Sciences
or
MATA37H3 Calculus II for Mathematical Sciences]
Astronomy Courses

ASTA01H3 Introduction to Astronomy and Astrophysics I: The Sun and Planets
The solar neighbourhood provides examples of astronomical bodies that can be studied by both ground-based and space vehicle based-observational instruments. The astronomical bodies studied range from cold and rocky planets and asteroids to extremely hot and massive bodies, as represented by the sun. This course considers astronomical bodies and their evolution, as well as basic parts of physics, chemistry, etc., required to observe them and understand their structure. The course is suitable for both science and non-science students.
Exclusion: AST101H
Breadth Requirement: Natural Sciences

ASTA02H3 Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets
The structure and evolution of stars and galaxies is considered, with our own galaxy, the Milky Way, providing the opportunity for detailed study of a well-observed system. Even this system challenges us with many unanswered questions, and the number of questions increases with further study of the universe and its large-scale character. Current models and methods of study of the universe will be considered. The course is suitable for both science and non-science students.
Exclusion: AST121H, AST201H
Breadth Requirement: Natural Sciences

ASTB03H3 Great Moments in Astronomy
An examination of the people, the background and the events associated with some major advances in astronomy. Emphasis is given to the role of a few key individuals and to how their ideas have revolutionized our understanding of nature and the Universe. The perspective gained is used to assess current astronomical research and its impact on society.
Prerequisite: 4.0 full credits
Exclusion: AST210H
Breadth Requirement: Natural Sciences

ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
Prerequisite: MATA30H3 & [MATA36H3 or MATA37H3] & PHYA21H3
Corequisite: MATB41H3
Exclusion: (ASTB21H3), (ASTC22H3), [AST221H & AST222H]
Breadth Requirement: Natural Sciences

ASTC02H3 Practical Astronomy: Instrumentation and Data Analysis
A hands-on introduction to astronomical observing using the UTSC telescope. Lectures cover topics of astronomical instrumentation and data reduction. Observations of Solar System planets, moons, planetary nebula, globular clusters and galaxies will be made. Students will present their results in the style of a scientific paper and a talk.
Prerequisite: ASTB23H3
Exclusion: AST325H, AST326Y
Enrolment Limits: 16
Breadth Requirement: Natural Sciences

ASTC25H3 Astrophysics of Planetary Systems
Prerequisite: MATB41H3 & PHYA21H3
Corequisite: MATB42H3
Exclusion: (ASTB21H3), (ASTC22H3), [AST221H & AST222H]
Breadth Requirement: Natural Sciences

ASTC26H3 History of Astronomy
A survey of the development of astronomical thought from the time of earliest recorded observations to modern times. The evolution of observational techniques and theories is examined. The role of the individual scientist is emphasized.
Prerequisite: MATA30H3 & [MATA36H3 or MATA37H3] & PHYA21H3
Corequisite: MATB41H3
Exclusion: (ASTB21H3), (ASTC22H3), [AST221H & AST222H]
Breadth Requirement: Natural Sciences

ASTC27H3 Mathematics of the Universe
An introduction to mathematics that has been used in the study of the universe. Topics include: the mathematics of the solar system, cosmology, quantum mechanics, and general relativity. The course is designed for students with a strong interest in mathematics and its applications to the study of the universe.
Prerequisite: MATB41H3 & MATB42H3
Corequisite: MATB43H3
Exclusion: (ASTB21H3), (ASTC22H3), [AST221H & AST222H]
Breadth Requirement: Natural Sciences
Biological Sciences

Faculty List

- M.C.B. Andrade, B.Sc. (Simon Fraser), M.Sc. (Toronto), Ph.D. (Cornell), Professor
- A. Ashok, B.Sc. (Sheffield), Ph.D. (Brown), Associate Professor, Teaching Stream
- R. Boonstra, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
- I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
- S.A. Brunt, B.Sc., M.Sc. (Windsor), Ph.D. (Tennessee), Associate Professor
- I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
- S.A. Brunt, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- M.W. Cadotte, B.Sc., M.Sc. (Windsor), Ph.D. (Tennessee), Associate Professor
- I.M. Campbell, B.Sc. (Alberta), M.A., Ph.D. (Toronto), Associate Professor Emeritus
- R.E. Dengler, B.Sc., Ph.D. (California, Davis), Associate Professor Emeritus
- S. Erb, B.Sc. (Wilfrid Laurier), M.A., Ph.D. (Concordia), Associate Professor
- M.F. Filosa, B.S. (St. Peter's), M.S. (Fordham), Ph.D. (Princeton), Associate Professor Emeritus
- M.J. Fitzpatrick, B.Sc., M.Sc. (Brock), Ph.D. (Toronto), Assistant Professor
- R.R. Fulthorpe, B.Sc., M.Sc. (Toronto), Ph.D. (Carleton), Professor
- S. Gazzarrini, B.Sc., M.Sc. (Milan), Ph.D. (Tuebingen), Associate Professor
- J.W. Gurd, B.A. (Mount Allison), Ph.D. (McGill), Professor Emeritus
- R.E. Harrison, B.Sc. (Winnipeg), M.Sc. (Manitoba), Ph.D. (Toronto), Associate Professor
- C.A. Hasenkampf, B.Sc. (Loyola), M.Sc., Ph.D. (Florida State), Associate Professor
- K. Kerman, B.Sc., M.Sc. (Aegean), Ph.D. (Japan Advanced Institute of Science & Technology), Associate Professor
- H.J. Kronzucker, B.A., B.Sc., M.D. (Wuerzburg/British Columbia), Ph.D. (British Columbia), Professor
- N.R. Lovejoy, B.Sc., M.Sc. (Toronto), Ph.D. (Cornell), Associate Professor
- N.E. Mandrak, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor
- A.C. Mason, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), Associate Professor
- P. McGowan, B.Sc. (Concordia), M.A., Ph.D. (Duke), Assistant Professor
- P.K. Molnar, B.Sc., M.Sc. (Ludwig-Maximilians-Universitat Munich), Ph.D. (Alberta), Assistant Professor
- C. Nalewajko, B.Sc., Ph.D., D.Sc. (University College London), Professor Emerita
- J.E. Nash, B.Sc. (Aberdeen), M.Sc., Ph.D. (Manchester), Associate Professor
- K.N. Persaud, B.Sc. (Toronto), B.Ed. (Western Ontario), Ph.D. (McMaster), Associate Professor, Teaching Stream
- C. Pickett, B.Sc., M.A. (Toronto), Senior Lecturer Emerita
- S.G. Reid, B.Sc., Ph.D. (Ottawa), Associate Professor
- B.A. Richards, B.Sc. (Toronto), M.Sc., Ph.D. (Oxford), Assistant Professor
- C.D. Riggs, B.Sc. (North Carolina), Ph.D. (Florida State), Associate Professor
- J.C. Ritchie, B.Sc. (Aberdeen), Ph.D. (Sheffield), D.Sc. (Aberdeen), F.R.S.C., Professor Emeritus
- J.C. Silver, B.Sc., Ph.D. (CUNY), Professor Emerita
- I. Stehlik, B.Sc., M.Sc., Ph.D. (Zurich), Associate Professor, Teaching Stream
- M.R. Terebiznik, B.Sc., Ph.D. (U.B.A., Buenos Aires, Argentina), Associate Professor
- T.R. Thiele, B.A. (Hamilton College, Clinton, NY), Ph.D. (Oregon), Assistant Professor
- B. Treanor, B.Sc. (Calgary), Ph.D. (Imperial College London), Assistant Professor
- G.C. Vanlerberghe, B.Sc., M.Sc. (Western Ontario), Ph.D. (Queen's), Professor
- J.T. Weir, Ph.D. (UBC), Assistant Professor
- K.C. Welch, B.Sc. (Trinity University), M.A., Ph.D. (Santa Barbara), Associate Professor
- D.D. Williams, B.Sc. (North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor Emeritus
- G.R. Williams, B.Sc., Ph.D., D.Sc. (Liverpool), F.R.S.C., Professor Emeritus
- J.H. Youson, B.A. (Victoria), M.Sc. (McGill), Ph.D. (Western Ontario), Professor Emeritus
Biological Sciences

- X. Zhang, B.Sc., M.Sc. (Shanghai), Ph.D. (Basel), Assistant Professor
- R. Zhao, B.Sc. (Peking University), Ph.D. (Chinese Academy of Agricultural Sciences), Associate Professor

Associate Chair Undergraduate: Shelley Brunt Email: biosci-assoc-chair-undergrad@utsc.utoronto.ca

Overview

Biological Sciences offers five specialist programs: Conservation and Biodiversity; Molecular Biology and Biotechnology (with or without the Co-op option); Human Biology; and Integrative Biology. The Conservation and Biodiversity program enables students to explore the origins and maintenance of the Earth's astonishing biodiversity using a variety of perspectives and approaches. In the Molecular Biology and Biotechnology programs students investigate the cellular and sub-cellular mechanisms underlying life processes. The Human Biology specialist program emphasizes the biology of the human species and is tailored for students who wish to pursue a career in a health-related field. The Integrative Biology specialist program approaches biological questions in a multidisciplinary fashion, with course work in a range of biology sub-disciplines.

Biological Sciences also offers five major programs, one minor program and one joint specialist program. The major programs (in Biology, Conservation and Biodiversity; Human Biology; Molecular Biology, Immunology and Disease; and Plant Biology) allow students to combine their studies in biology with studies in either an unrelated program or in a complementary major program such as neuroscience, environmental science, biochemistry, health studies or psychology. The minor program in Biology is intended for students who have an interest in biology, but wish to focus their studies in a different discipline. A joint specialist program in Paramedicine is offered by Biological Sciences in collaboration with Centennial College. Completion of this unique four year program leads to a BSc from UTSC and a Paramedic diploma from Centennial College. Students that complete the Centennial diploma are eligible to take the Ministry of Health exams required to qualify as a Primary Care Paramedic. This program is described in the Paramedicine section of this Calendar.

Students are advised to consult the specific program requirements for their degree, and, if necessary, to meet with the appropriate program supervisor for advice on completion of their program requirements. In some instances, courses from other University of Toronto campuses or other institutions may be used to satisfy program requirements, but such substitutions must be pre-approved by the program supervisor. Students should check the information that follows thoroughly. Other useful information can be found on the Department of Biological Sciences web site at www.utsc.utoronto.ca/biosci

Admission to Biological Sciences programs

Students apply to Biological Sciences Specialist and Major programs after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding BIOA11H3), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding MATA02H3) or Statistics and with a minimum cumulative grade point average (CGPA) as specified below:

- Admission to Specialist programs requires a cumulative grade point average (CGPA) of at least 2.0.
- Admission to Major programs requires a cumulative grade point average (CGPA) of at least 1.85.
- There are no admission requirements for the Minor program in Biology.

Application for admission is made to the Registrar through ROSI, in April/May and July/August. See the UTSC Registrar's website for information on program (Subject POSI) selection at: www.utsc.utoronto.ca/subjectpost.

Pre-program Supervision in Biological Sciences

Biological Sciences has a pre-program supervisor available to advise students who have not yet chosen a program (primarily 1st year students) on degree and program related matters. Please visit Room SW421D or call 416-287-7404 if you have questions of this nature.

Combining Major Programs within Biological Sciences

Students are strongly discouraged from combining two major programs in Biological Sciences due to the lack of distinct credits available for completion of both majors. Completing a major and minor program in Biological Sciences is also not recommended for the same reason.

Enrolment in Biological Sciences courses

Priority access to B, C and D level Biology courses is given to students enrolled in Biological Sciences specialist and major programs and other programs requiring these courses. At the beginning of the Fall/Winter registration period, the courses will be restricted to these students. Provided space is available, the courses will then open up to other students.

Second Year Core Courses

Students are STRONGLY advised to take ALL of the 2nd year core courses (BIOB10H3, BIOB11H3, (BIOB30H3), (BIOB31H3), BIOB34H3, BIOB38H3, BIOB50H3, BIOB51H3) as well as a core lab course (BIOB12H3 or BIOB32H3 or BIOB33H3 or BIOB52H3) during their 2nd year of study. This will assist in the selection of upper-level courses, provide the greatest flexibility to satisfy the prerequisites of such courses, and give the background and experience needed to excel in upper-level courses. Failure to take the entire set of core courses in 2nd year can result in course timetabling conflicts and unfavorable exam schedules (e.g. back-to-back exams) in your upper years.

Service Learning and Outreach (Previously known as Science Engagement)

For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

Biological Sciences Programs
SPECIALIST PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)

Supervisor: Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik
Email: biodiversity@utsc.utoronto.ca

This program presents a foundation for understanding how ecology and evolution shape organismal features (from morphology and physiology to behaviour) and the structure and function of communities and ecosystems. Ultimately these processes determine the broad patterns of organization of life on earth and biodiversity. The challenges to biodiversity are daunting. Habitat destruction, biological invasions and climate change are causing loss of species and disruption of ecosystems worldwide. Graduates are trained to understand and actively seek solutions to these problems. This program will show how ecological and evolutionary perspectives can be used to understand and predict the outcome of dynamic interactions among organisms, populations, species, and communities. Students will be well trained to take positions in government agencies, consulting firms or NGO's, able to continue with graduate studies in science for academic careers, or able to pursue careers in business or law related to environmental issues, stewardship and sustainable development.

NOTE: This program has been renamed. It was formerly known as the Specialist in Biodiversity, Ecology & Evolution (B.Sc.).

Program Requirements
This program consists of 14.5 required credits.

A. Required Courses
First Year
1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics
MATA29H3 Calculus I for the Life Sciences
MATA35H3 Calculus II for Biological Sciences

0.5 Credit in Physics
Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

0.5 Credit in Computer Science
Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)

Second Year
3.0 Credits of Biology Core Courses
BIOC16H3 Evolutionary Genetics and Genomics
BIOC50H3 Macroevolution

0.5 Credit of Biology Core Labs
BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year
2.0 Credits of C-level Ecology and Evolution Foundation Courses
BIOC16H3 Evolutionary Genetics and Genomics
BIOC50H3 Macroevolution
Biological Sciences

BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology

Third/Fourth Year

4.5 credits of C- & D-level courses from Bins 1 and 2 below. This must include at least one credit from each bin and at least one credit total at the D-level.

Bin 1: C- & D-level Ecology and Evolution Courses
Choose from:
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC60H3 Winter Ecology
BIOC63H3 Conservation Biology
BIOC65H3 Environmental Toxicology
(BIOC67H3) Inter-University Biology Field Course
BIOD25H3 Genomics
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD54H3 Applied Conservation Biology
BIOD60H3 Spatial Ecology
BIOD62H3 Species and Speciation
BIOD66H3 Causes and Consequences of Biodiversity
BIOD67H3 Inter-University Biology Field Course
EESC04H3 Biodiversity and Biogeography

Bin 2: C- & D-level Organismal Biology Courses
Choose from:
BIOC37H3 Plants: Life on the Edge
(BIOC38H3) Plants and Society
BIOC40H3 Plant Physiology
BIOC54H3 Animal Behaviour
BIOC62H3 Role of Zoos in Conservation
BIOD26H3 Fungal Biology & Pathogenesis
BIOD33H3 Comparative Animal Physiology
BIOD37H3 Biology of Plant Stress
BIOD43H3 Animal Movement and Exercise
BIOD45H3 Animal Communication
BIOD48H3 Ornithology
BIOD53H3 Special Topics in Behavioural Ecology
EESC30H3 Environmental Microbiology

B. Senior Research Courses (optional)
Students interested in graduate research are encouraged to take one or more of the independent research courses offered in Biological Sciences as part of their degree.
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology
BIOD99Y3 Directed Research in Biology

SPECIALIST PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Supervisor: Until June 30, 2016: M. Terebiznik; Effective July 1, 2016: A. Ashok
Email: human-biology@utsc.utoronto.ca

The Human Biology specialist program provides a solid foundation of introductory science courses and core biology courses while emphasizing, in the upper years, issues related to human health, the nature of humans and their culture as well as the interaction of the human species with the environment. The first year of the program emphasizes introductory courses in biology, chemistry, calculus, physics and psychology. The second year of the program emphasizes core courses in cell biology, molecular biology, physiology, ecology, evolution and anatomy that provide the basis for continued specialization in the third and fourth years. The upper years of the program emphasize specialized courses in anatomy, biochemistry, endocrinology, immunology, microbiology, physiology, psychology, pathology and pathobiology. This program is suited for those students who wish to go onto health-related fields such as medicine, dentistry, nursing, pharmacy, physiotherapy and health policy/management or graduate studies in these, and other, areas such as physiology, medicine and endocrinology.

Program Requirements
This Program consists of 15.5 credits.
Required Courses and Suggested Course Sequence

First Year

1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit of Mathematics
MATA29H3 Calculus I for the Life Sciences
MATA35H3 Calculus II for Biological Sciences

1.0 Credit of Introductory Physics Courses
PHYA11H3 Introduction to Physics IB
PHYA22H3 Introduction to Physics IIB

1.0 Credit of Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

Second Year

3.0 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

1.0 Credit of Biology Core Labs
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Third/Fourth Years

2.0 Credits of C-level Biology Core Courses
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC32H3 Human Physiology I
BIOC39H3 Immunology

1.5 Credits of Additional C-level Biology Courses
Choose From:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC14H3 Genes, Environment and Behaviour
BIOC16H3 Evolutionary Genetics and Genomics
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
[BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture]
BIOC40H3 Plant Physiology
BIOC58H3 Biological Consequences of Global Change
BIOC65H3 Environmental Toxicology

1.0 Credit of D-level Biology Courses
Choose From:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease

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In today's rapidly changing world, the development of solutions to combat some of the most pressing global challenges such as climate change, emerging diseases, hunger and species extinction, requires an integrative approach in which expertise is drawn from disparate biological and other disciplines. The specialist program in Integrative Biology provides the student with a solid knowledge base in key core and foundational areas of biology while also providing a breadth of knowledge to support more specialized studies and focused training in a range of disciplines (for examples, see below under “Routes to Specialization”). Students who complete this program will be well positioned for a career in many aspects of the biological sciences or to undertake further studies at the professional or graduate level.

Program Requirements
This program consists of 14.5 required credits including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level.

A. Required Courses
First Year
1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics
MATA29H3 Calculus I for the Life Sciences
MATA35H3 Calculus II for Biological Sciences

0.5 Credit in Physics
Choose from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

0.5 Credit in Computer Science
Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing (this course could also be taken in second year)
Second Year

3.0 Credits of Biology Core Courses

BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit of Biology Core Labs
Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Third Year

1.5 Credits of Biology Foundation Courses

BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC54H3 Animal Behaviour

Third/Fourth Year

0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology
Choose from:
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC23H3 Practical Approaches to Biochemistry
BIOC32H3 Human Physiology I
BIOC33H3 Human Physiology II: Lecture and Laboratory
BIOC34H3 Human Physiology II: Lecture
BIOC39H3 Immunology
BIOC40H3 Plant Physiology
BIOC55H3 Environmental Toxicology
ANTC67H3 Foundations in Epidemiology
NROC34H3 Neuroethology
NROC61H3 Learning and Motivation
NROC64H3 Sensorimotor Systems
PSYC31H3 Clinical Neuropsychology
BIOD08H3 Theoretical Neuroscience
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD35H3 Sports Science
BIOD43H3 Animal Movement and Exercise
BIOC65H3 Pathologies of the Nervous System
NROD67H3 Psychobiology of Aging

0.5 Credit of Advanced Courses in Ecology and Conservation
Choose from:
BIOC50H3 Macroevolution
BIOC51H3 Tropical Biodiversity Field Course
BIOC52H3 Ecology Field Course
BIOC58H3 Biological Consequences of Global Change
BIOC59H3 Advanced Population Ecology
BIOC61H3 Community Ecology and Environmental Biology
BIOC62H3 Role of Zoos in Conservation
BIOC63H3 Conservation Biology
(BIOC67H3) Inter-University Biology Field Course
0.5 Credit of Advanced Courses in Genes and Development
Choose from:
- BIOC10H3 Cell Biology: Proteins from Life to Death
- BIOC14H3 Genes, Environment and Behaviour
- BIOC16H3 Evolutionary Genetics and Genomics
- BIOC19H3 Animal Developmental Biology
- BIOC31H3 Plant Development and Biotechnology
- BIOD19H3 Epigenetics in Health and Disease
- BIOD21H3 Advanced Molecular Biology Laboratory
- BIOD22H3 Molecular Biology of the Stress Response
- BIOD23H3 Special Topics in Cell Biology
- BIOD25H3 Genomics

0.5 Credit of Advanced Courses in Organismal Biology
Choose from:
- BIOC21H3 Vertebrate Histology: Cells and Tissues
- ANTD22H3 Theory and Methodology of Primatology
- ANTC68H3 Deconstructing Epidemics
- EESC30H3 Environmental Microbiology
- BIOC37H3 Plants: Life on the Edge
  (BIOC38H3) Plants and Society
- BIOC60H3 Winter Ecology
- BIOD17H3 Seminars in Cellular Microbiology
- BIOD26H3 Fungal Biology and Pathogenesis
- BIOD29H3 Pathobiology of Human Disease
- BIOD33H3 Comparative Animal Physiology
- BIOD37H3 Biology of Plant Stress
- BIOD45H3 Animal Communication
- BIOD48H3 Ornithology
- BIOD53H3 Special Topics in Behavioural Ecology

3.0 Credits of Additional C- or D-Level Biology Courses
Choose from:
Any BIO (or formerly BGY) C- or D-level courses offered by the department.

Note: this includes the Biology Team Research, Supervised Studies and Directed Research courses (BIOC99H3, BIOD95H3, BIOD98Y3 and BIOD99Y3).

Note: NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement, if not already used toward fulfilling one of the other requirements above.

B. Routes to Specialization (optional)
A key advantage of the specialist program in Integrative Biology is the ability for students to readily specialize in areas of particular interest. Please note that students are not required to follow any of these suggested routes. They are provided for guidance only.

- For students with a particular interest in "The Impact of Environment and Climate Change on the Biology of Ecosystems", you should consider including some or all of the following courses in your program: BIOB52H3 (Ecology and Evolutionary Biology Lab), BIOC52H3 (Ecology Field Course), BIOC58H3 (Biological Consequences of Global Change), BIOC59H3 (Advanced Population Ecology), BIOC60H3 (Winter Ecology), BIOC61H3 (Community Ecology and Environmental Biology) and (BIOC67H3) (Inter-University Biology Field Course).

- For students with a particular interest in "The Conservation and Biodiversity of Organisms", you should consider including some or all of the following courses in your program: BIOC51H3 (Tropical Biodiversity Field Course), BIOC62H3 (Role of Zoos in Conservation), BIOC63H3 (Conservation Biology), BIOD48H3 (Ornithology), BIOC52H3 (Special Topics in Biodiversity and Systematics), BIOD54H3 (Applied Conservation Ecology), BIOD60H3 (Spatial Ecology) & BIOD66H3 (Causes and Consequences of Biodiversity).

- For students with a particular interest in "Animal Physiology", you should consider including some or all of the following courses in your program: BIOB32H3 (Animal Physiology Laboratory), BIOC32H3 (Human Physiology I), BIOC33H3 or BIOC34H3 (Human Physiology II), BIOD29H3 (Pathobiology of Human Disease), BIOD33H3 (Comparative Animal Physiology), & BIOD43H3 (Animal Movement and Exercise).

- For students with a particular interest in "Ecophysiology", you should consider including some or all of the following courses in your program: BIOC65H3 (Environmental Toxicology), EESC30H3 (Environmental Microbiology), BIOD33H3 (Comparative Animal Physiology) & BIOD37H3
For students with a particular interest in "Infection and Disease" or "clinically-oriented topics", you should consider including some or all of the following courses in your program: ANTC67H3 (Foundations in Epidemiology) or ANTC68H3 (Deconstructing Epidemics), BIOB33H3 (Human Development and Anatomy), BIOC21H3 (Vertebrate Histology: Cells and Tissues), BIOC33H3 or BIOC34H3 (Human Physiology II), BIOC39H3 (Immunology), BIOD17H3 (Seminars in Cellular Microbiology), BIOD25H3 (Genomics), BIOD26H3 (Fungal Biology and Pathogenesis), BIOD29H3 (Pathobiology of Human Disease) & BIOD65H3 (Pathologies of the Nervous System).

For students with a particular interest in "Plant and Microbial Biology", you should consider including some or all of the following courses in your program: BIOC31H3 (Plant Development and Biotechnology), EESC30H3 (Environmental Microbiology), BIOD17H3 (Seminars in Cellular Microbiology) and BIOD37H3 (Biology of Plant Stress).

For students with a particular interest in "Behavioural Biology" you should consider including some or all of the following courses in your program: NROC34H3 (Neuroethology), BIOD45H3 (Animal Communication), BIOD53H3 (Special Topics in Behavioural Ecology) & NROC61H3 (Learning and Motivation).

For students with a particular interest in "Behavioural Genetics", you should consider including some or all of the following courses in your program: BIOC16H3 (Evolutionary Genetics and Genomics), NROC34H3 (Neuroethology), BIOD21H3 (Advanced Molecular Biology Laboratory), BIOD22H3 (Molecular Biology of the Stress Response), BIOD23H3 (Special Topics in Cell Biology), BIOD25H3 (Genomics), BIOD45H3 (Animal Communication), and BIOD53H3 (Special Topics in Behavioural Ecology).

For students with a particular interest in "The Evolution of Development" (a.k.a. "evo/devo"), you should consider including some or all of the following courses in your program: BIOC12H3 (Biochemistry I: Proteins and Enzymes), BIOC13H3 (Biochemistry II: Bioenergetics and Metabolism), BIOC16H3 (Evolutionary Genetics and Genomics), BIOC19H3 (Animal Developmental Biology), BIOC23H3 (Practical Approaches to Biochemistry), BIOC31H3 (Plant Development and Biotechnology), BIOC33H3 (Human Physiology II: Lecture and Laboratory) or BIOC34H3 (Human Physiology II: Lecture), BIOD21H3 (Advanced Molecular Biology Laboratory), BIOD22H3 (Molecular Biology of the Stress Response), BIOD23H3 (Special Topics in Cell Biology), BIOD35H3 (Sports Science) and BIOD25H3 (Genomics).

SPECIALIST PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)

Supervisor: C. Hasenkampf Email: molecular-biology-biotechnology@utsc.utoronto.ca

The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combines this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through the course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills.

NOTE: This program has been renamed. It was formerly known as the Specialist in Cell and Molecular Biology (B.Sc.).

Program Requirements

This program consists of 14.0 required credits.

First Year

1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Mathematics
MATA29H3 Calculus I for the Life Sciences
MATA35H3 Calculus II for Biological Sciences

1.0 Credit in Physics
Choose 0.5 credit from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

Choose 0.5 credit from:
PHYA21H3 Introduction to Physics IIA
PHYA22H3 Introduction to Physics IIB

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I (this course could also be taken in second year)
PSYB07H3 Data Analysis in Psychology (this course could also be taken in second year)

Second Year
3.0 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit of Biology Core Labs
BIOB12H3 Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Third Year
3.0 Credits of Biology C-level Courses
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science
Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing
(computer science could also be taken in an earlier year)

Third/Fourth Year
0.5 Credit of Cognate Biology Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year
0.5 Credit in Advanced Molecular Techniques
BIOD21H3 Advanced Molecular Biology Laboratory

0.5 credit of D-level Research-oriented “Cell & Molecular” Course Work
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology
Note: Any of these courses not used to satisfy this requirement may be used to fulfill the '0.5 Credit of Cognate Biology Courses'.

SPECIALIST (CO-OPERATIVE) PROGRAM IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY (SCIENCE)

Supervisor: C. Hasenkampf  Email: molecular-biology-biotechnology@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

The Molecular Biology and Biotechnology program strives to help students construct a broad foundation of knowledge across the major disciplines of biology in the first two years of study, and combine this knowledge with an increasingly analytical and reflective approach to learning. Upon this base, students deepen their knowledge of biological processes that occur at the cellular and molecular level through course work of their third and fourth years. This is a laboratory-rich program that integrates an understanding of chemical and physical processes with our complex biological systems. Because of broad training in biology and rigorous cross training in cognate disciplines, graduates are well positioned to apply to professional and graduate schools or work in a broad range of government regulatory agencies, clinical or research-focused industries and other careers that require the union of strong analytical and technical skills. The co-op option of the Molecular Biology and Biotechnology program complements and punctuates academic course work with full-time work terms in research laboratories, government, health care, or in public or private industry. These placements help students define and refine their career and/or professional school goals. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

NOTE: This program has been renamed. It was formerly known as the Specialist Co-operative in Cell and Molecular Biology (B.Sc.).

Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website: www.utsc.utoronto.ca/registrar. The minimum qualifications for entry are 5.0 credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [(MATA20H3) & (MATA21H3)] or [MATA29H3 & MATA35H3], [PHYA10H3 or PHYA11H3], plus a cumulative GPA of at least 2.75.

Program Requirements

This program consists of 14.0 required credits plus two work-terms.

A. Course Requirements

First Year

1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry I: Reactions and Mechanisms

1.0 Credit in Mathematics
MATA29H3 Calculus I for the Life Sciences
MATA35H3 Calculus II for Biological Sciences

1.0 Credit in Physics
Choose 0.5 credit from:
PHYA10H3 Introduction to Physics IA
PHYA11H3 Introduction to Physics IB

Choose 0.5 credit from:
PHYA21H3 Introduction to Physics IIA
PHYA22H3 Introduction to Physics IIB

0.5 Credit in Statistics
Choose from:
STAB22H3 Statistics I (this course could also be taken in second year)
PSYB07H3 Data Analysis in Psychology (this course could also be taken in second year)

Second Year

3.0 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit of Biology Core Labs
BIOB12H3 Cell and Molecular Biology Laboratory

1.0 Credit of Organic Chemistry Courses
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Computer Science might be taken in this year and will enhance Co-op placement options.

Third Year

3.0 Credits of Biology C-level Courses
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

0.5 Credit in Computer Science
Choose from:
CSCA08H3 Introduction to Computer Science I (most appropriate course for computer science students)
CSCA20H3 Introduction to Programming (most appropriate course for non-computer science students)
PSCB57H3 Introduction to Scientific Computing

Third/Fourth Year

0.5 Credit of Cognate Biology Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC14H3 Genes, Environment and Behaviour
BIOC19H3 Animal Developmental Biology
BIOC21H3 Vertebrate Histology: Cells and Tissues
BIOC31H3 Plant Development and Biotechnology
BIOC40H3 Plant Physiology
BIOD37H3 Biology of Plant Stress

Fourth Year

0.5 Credit in Advanced Molecular Techniques
BIOD21H3 Advanced Molecular Biology Laboratory

0.5 Credit of D-level Research-Oriented “Cell & Molecular” Course Work
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD22H3 Molecular Biology of the Stress Response
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease
BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Directed Research in Biology

Note: Any of these courses not used to satisfy this requirement can be used to fulfill the ‘0.5 Credit of Cognate Biology Courses.’

B. Work Term Requirements

The program requires eight four-month terms of study and two four-month work terms. Practical work experience in the fields of cell biology, genetics, molecular biology and biotechnology are alternated with study terms to enhance academic studies and develop professional and personal skills. Students must submit both an oral and written report on each work term for evaluation, and will also complete a standardized form assessing the quality of their co-op work term. Students are expected to do at least one of their work placements in the fall or winter term.

To be eligible for their first work term, students must be in good standing in the program and have completed at least 10.0 credits, including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [MATA20H3 & MATA21H3] or [MATA29H3 & MATA35H3], [PHYA10H3 or PHYA11H3], BIOB10H3, BIOB11H3, BIOB12H3, CHMB41H3, CHMB42H3. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and...
work term expectations, prior to their first work term.

To be eligible for their second work term placement, students must have completed at least 12.5 credits which must include [BIOC12H3 & BIOC15H3] or [BIOC13H3 & BIOC17H3] and have received a satisfactory evaluation for their performance and for their reports on their first work term. Completion of Statistics and Computer Science course work, before the second placement, is highly recommended.

SPECIALIST (JOINT) PROGRAM IN APPLIED MICROBIOLOGY (SCIENCE)

See the Applied Microbiology section of this Calendar for program description.

SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE (SCIENCE)

See the Paramedicine section of this Calendar for program description.

MAJOR PROGRAM IN BIOLOGY (SCIENCE)

Supervisor: Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik
Email: biology-major@utsc.utoronto.ca

Biology is the study of life and this major program in Biology is meant to provide students with a solid basic knowledge of this vast discipline, while also allowing the student to tailor their program in the upper years toward one or more biological sub-disciplines. Many of the world’s most important and timely issues (medical science and disease, conservation and biodiversity, food and energy supplies) are issues that require citizens to have a firm understanding of biological principles and practices.

Program Requirements
This program consists of 8.0 required credits.

First Year
1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

0.5 Credit in Mathematics or Statistics
Choose from:
MATA29H3 Calculus I for the Life Sciences
STAB22H3 Statistics I (this course could also be taken in second year)
PSYB07H3 Data Analysis in Psychology (this course could also be taken in second year)

Second Year
3.0 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit of Biology Core Labs
Choose from:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy Laboratory
BIOB52H3 Ecology and Evolutionary Biology Laboratory

Third Year
1.5 Credits of Additional C-level Biology Courses
Choose from: Any BIO C-level courses offered by the department.
Note: that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement.
Fourth Year

0.5 Credit of Additional D-Level Biology Courses
Choose from: Any BIO D-level courses offered by the department. **Note:** that this includes the Biology Supervised Studies and Directed Research courses (BIOD95H3, BIOD98Y3 & BIOD99Y3).

**MAJOR PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)**

**Supervisor:** Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik  
**E-mail:** biodiversity@utsc.utoronto.ca

This program provides background and training in modern biological approaches to the study of biodiversity, ecology, and evolution. The links between these fields are emphasized, and topics covered range from the structure and function of ecosystems to the evolution of behaviour, morphology, and physiology.  

**NOTE:** This program has been renamed. It was formerly known as the Major in Biodiversity, Ecology & Evolution (B.Sc.).

**Program Requirements**
This program consists of 8.5 required credits.

**First Year**

1.0 Credit of Introductory Biology Courses  
BIOA01H3 Life on Earth: Unifying Principles  
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses  
CHMA10H3 Introductory Chemistry I: Structure and Bonding  
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

0.5 Credit in Mathematics or Statistics  
Choose from:  
MATA29H3 Calculus I for the Life Sciences  
STAT22H3 Statistics I  
PSYB07H3 Data Analysis in Psychology

**Second Year**

3.0 Credits of Biology Core Courses  
BIOB10H3 Cell Biology  
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes  
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]  
[BIOB38H3 Plants and Society or (BIOB31H3) Plant Physiology]  
BIOB50H3 Ecology  
BIOB51H3 Evolutionary Biology

0.5 Credit of Biology Core Labs  
BIOB52H3 Ecology and Evolutionary Biology Laboratory

**Third Year**

1.0 Credit of Ecology & Evolution Foundation Courses  
Choose from:  
BIOC16H3 Evolutionary Genetics and Genomics  
BIOC50H3 Macroevolution  
BIOC59H3 Advanced Population Ecology  
BIOC61H3 Community Ecology and Environmental Biology

1.0 Credit of Other C-level Courses  
Choose from:  
BIOC37H3 Plants: Life on the Edge  
(BIOC38H3) Plants and Society  
BIOC40H3 Plant Physiology  
BIOC51H3 Tropical Biodiversity Field Course  
BIOC52H3 Ecology Field Course  
BIOC54H3 Animal Behaviour  
BIOC58H3 Biological Consequences of Global Change  
BIOC60H3 Winter Ecology  
BIOC62H3 Role of Zoos in Conservation  
BIOC63H3 Conservation Biology
MAJOR PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Supervisor:  Until June 30, 2016: M. Terebiznik; Effective July 1, 2016: A. Ashok
Email: human-biology@utsc.utoronto.ca

The Human Biology major program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to human health. Upper year courses are available in physiology, cell and molecular biology, anatomy, microbiology, pathology, endocrinology, anthropology, psychology and biochemistry. This program is suitable for students with an interest in applied biology in health sciences or in social sciences related to human health.

Program Requirements:
This program consists of 8.5 credits.

Required Courses and Suggested Course Sequence

First Year
1.0 Credit of Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit in Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit in Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

0.5 Credit in Mathematics or Statistics
Choose From:
MATA29H3 Calculus I for the Life Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year
2.5 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
[BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I]
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit in a Biology Core Lab
Choose From:
Third/Fourth Years

1.5 Credits of Additional C-Level Courses
Choose From:
- BIOC10H3 Cell Biology: Proteins from Life to Death
- BIOC14H3 Genes, Environment and Behaviour
- BIOC15H3 Genetics
- BIOC16H3 Evolutionary Genetics and Genomics
- BIOC17H3 Microbiology
- BIOC19H3 Animal Developmental Biology
- BIOC21H3 Vertebrate Histology: Cells and Tissues
- BIOC32H3 Human Physiology I
[BIOC33H3 Human Physiology II: Lecture and Laboratory or BIOC34H3 Human Physiology II: Lecture]
- BIOC39H3 Immunology
- BIOC58H3 Biological Consequences of Global Change
- BIOC65H3 Environmental Toxicology
- NROC61H3 Learning and Motivation
- NROC64H3 Sensorimotor Systems
- NROC69H3 Synaptic Organisation and Physiology of the Brain

0.5 Credit of Additional D-Level Biology Courses
Choose From:
- BIOD08H3 Theoretical Neuroscience
- BIOD17H3 Seminars in Cellular Microbiology
- BIOD19H3 Epigenetics in Health and Disease
- BIOD26H3 Fungal Biology and Pathogenesis
- BIOD29H3 Pathobiology of Human Disease
- BIOD33H3 Comparative Animal Physiology
- BIOD35H3 Sports Science
- BIOD43H3 Animal Movement and Exercise
- BIOD65H3 Pathologies of the Nervous System
- BIOD95H3 Supervised Study in Biology (topic must be human-related and approved by the program supervisor)
- NROD66H3 Drug Addiction
- NROD67H3 Psychobiology of Aging

MAJOR PROGRAM IN MOLECULAR BIOLOGY, IMMUNOLOGY AND DISEASE (SCIENCE)

Supervisor: S. Brunt  Email: molecular-biology-immunology@utsc.utoronto.ca

This program provides training and background in general biology with the opportunity to concentrate on courses in upper years that are related to immunology, infection and disease. Upper year courses are available in microbiology, immunology, biochemistry and pathobiology of disease. This program is suitable for students with an interest in molecular biology and disease.

Program Requirements
This program consists of 8.0 credits. To complete their degree, students shall combine this Major program with another Major program, or two Minor programs (see section entitled Combining Majors in Biology in the preamble to the description of Biological Sciences programs). When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth (see the Degrees section of this Calendar).

Required Courses and Suggested Sequence:

First Year

1.0 Credit of Introductory Biology Courses
- BIOA01H3 Life on Earth: Unifying Principles
- BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 Credit of Introductory Chemistry Courses
- CHMA10H3 Introductory Chemistry I: Structure and Bonding
- CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

0.5 Credit in Mathematics or Statistics
Choose from:
MATA29H3 Calculus I for the Life Sciences
STAB22H3 Statistics I
PSYB07H3 Data Analysis in Psychology

Second Year

2.5 Credits of Biology Core Courses
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
BIOB34H3 Animal Physiology
BIOB50H3 Ecology
BIOB51H3 Evolutionary Biology

0.5 Credit in a Biology Core Lab
Choose From:
BIOB12H3 Cell and Molecular Biology Laboratory
BIOB32H3 Animal Physiology Laboratory
BIOB33H3 Human Development and Anatomy

Third/Fourth Years

1.0 Credit of Required C-level Courses
BIOC17H3 Microbiology
BIOC39H3 Immunology

1.0 Credit of Additional C-level Courses
Choose from:
BIOC10H3 Cell Biology: Proteins from Life to Death
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC14H3 Genes, Environment and Behaviour
BIOC15H3 Genetics
BIOC19H3 Animal Developmental Biology
BIOC31H3 Plant Development and Biotechnology

0.5 Credit of Additional D-level Biology Courses
Choose from:
BIOD17H3 Seminars in Cellular Microbiology
BIOD19H3 Epigenetics in Health and Disease
BIOD23H3 Special Topics in Cell Biology
BIOD25H3 Genomics
BIOD26H3 Fungal Biology and Pathogenesis
BIOD27H3 Molecular Endocrinology
BIOD29H3 Pathobiology of Human Disease

MAJOR PROGRAM IN PLANT BIOLOGY (SCIENCE)

Supervisor: Dan Riggs; Email: plant-biology@utsc.utoronto.ca

The Major in Plant Biology provides a broad education in all areas of contemporary biology, and affords students an opportunity to concentrate on courses in upper years that are focused on plant biology. This program is suitable for students with an interest in the biochemistry, biotechnology, cell biology, ecology, evolution, genetics, physiology, and/or development of plants.

Program Requirements:
Students are required to complete a total of 8.5 credits.

Required Courses and Suggested Course Sequence:

First Year

1.0 credit in Introductory Biology Courses
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.0 credit in Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
### Biological Sciences Courses

**CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms**

#### 0.5 credit in Statistics
Choose From:
- STAB22H3 Statistics I
- PSYB07H3 Data Analysis in Psychology

#### Second Year

**2.5 credits in Biology Core Courses**
- BIOB10H3 Cell Biology
- BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
- BIOB38H3 Plants and Society
- BIOB50H3 Ecology
- BIOB51H3 Evolutionary Biology

#### Second Year

**0.5 credit in Biology Core Labs**
Choose from:
- BIOB12H3 Cell and Molecular Biology Laboratory
- BIOB52H3 Ecology and Evolutionary Biology Laboratory

#### Third Year

**2.0 credits**
- BIOC31H3 Plant Development and Biotechnology
- BIOC37H3 Plants: Life on the Edge
- BIOC40H3 Plant Physiology
  - [BIOC15H3 Genetics or BIOC17H3 Microbiology or BIOC50H3 Macroevolution]

#### Third/ Fourth Year

**0.5 credits; choose from:**
- BIOC61H3 Community Ecology and Environmental Biology
- BIOD21H3 Advanced Molecular Biology Laboratory
- BIOD37H3 Biology of Plant Stress
- BIOD62H3 Species and Speciation
- BIOD26H3 Fungal Biology and Pathogenesis

#### Fourth Year

**0.5 credit**
Choose from:
- [BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems or any of the following research-based courses if the research utilizes plants: BIOC99H3, BIOD95H3, BIOD98Y3 or BIOD99Y3]]

### MINOR PROGRAM IN BIOLOGY (SCIENCE)

**Supervisor:** Until June 30, 2016: M. Andrade; Effective July 1, 2016: I. Stehlik
**Email:** biology-minor@utsc.utoronto.ca

**Program Requirements**
This program must include one credit of the introductory biology courses (BIOA01H3 & BIOA02H3) plus 3.0 other credits in Biology, of which at least one credit must be at the C- or D-level.

**Note:** that NROC34H3 (Neuroethology), EESC04H3 (Biodiversity and Biogeography) and EESC30H3 (Environmental Microbiology) may also be used toward fulfilling this requirement.

**Biological Sciences Courses**

**BIOA01H3 Life on Earth: Unifying Principles**
A lecture and laboratory course providing an overview of the origins and cellular basis of life, genetics and molecular biology, evolution and the diversity of microorganisms. **Note:** that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course.
**Prerequisite:** [Grade 12 Biology or BIOA11H3] and Grade 12 Advanced Functions
**Exclusion:** BIO120H, BIO130H, (BIO150Y)
**Breadth Requirement:** Natural Sciences
BIOA02H3  Life on Earth: Form, Function and Interactions
A lecture and laboratory course providing an overview of the anatomy and physiology of plants and animals, population biology, ecology and biodiversity. Note: that both BIOA01H3 and BIOA02H3 must be completed prior to taking any other Biology course. Prerequisite: [Grade 12 Biology or BIOA11H3 and Grade 12 Advanced Functions] Exclusion: BIO120H, BIO130H, (BIO150Y)
Breadth Requirement: Natural Sciences

BIOA11H3  Introduction to the Biology of Humans
An exploration of how molecules and cells come together to build a regulate human organ systems. The course provides a foundation for understanding genetic principles and human disease, and applications of biology to societal needs. This course is intended for non-biology students. Exclusion: BIOA01H3, BIOA02H3, CSB201H1
Breadth Requirement: Natural Sciences
NOTE: (1) Priority will be given to students in the Major/Major Co-op in Health Studies - Population Health. Students across all disciplines will be admitted if space permits. (2) Students who have passed BIOA11H3 will be permitted to take BIOA01H3 and BIOA02H3.

BIOB10H3  Cell Biology
This course is designed to introduce theory and modern experimental techniques in cell biology. Emphasis will be on eukaryotic cells. Structure and function of major animal and plant organelles will be covered. Subsequent topics include the role of the cytoskeleton, Plasma membrane and extracellular matrix will also be detailed in the context of cell interactions with the environment. Prerequisite: BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3 Exclusion: BIO10Y3, BIO241H, (BIO250Y)
Breadth Requirement: Natural Sciences

BIOB10Y3  Cell Biology and Molecular Aspects of Genetic Processes
A course designed to introduce theory and modern experimental techniques in cell and molecular genetics. Emphasis will be on eukaryotic cells. First half topics include: Structure and function of major animal and plant organelles, the role of the cytoskeleton, the role of the plasma membrane and extracellular matrix in the context of cellular interactions with the environment. In the second half of the course topics will include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation, signal transduction and basic aspects of immunology. Please note this course contains the content of both BIOB10H3 and BIOB11H3. Prerequisite: BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3 Exclusion: BIOB10H3, BIOB11H3, BIO240H, BIO241H, (BIO250Y)
Breadth Requirement: Natural Sciences

BIOB11H3  Molecular Aspects of Cellular and Genetic Processes
A course focusing on the central dogma of genetics and how molecular techniques are used to investigate cellular processes. Topics include structure and function of the nucleus, DNA replication and cell cycle control, transcription and translation, gene regulation and signal transduction. Prerequisite: BIOB10H3 Exclusion: BIOB10Y3, BIO230H, (BIO250Y)
Breadth Requirement: Natural Sciences

BIOB12H3  Cell and Molecular Biology Laboratory
A practical introduction to experimentation in cell and molecular biology. Lab modules will introduce students to concepts and techniques in the general preparation of solutions and buffers, microbiology, molecular biology, biochemistry, microscopy and data manipulation and communication skills. This core laboratory course is the gateway for Cell & Molecular biology specialists to upper level laboratory offerings. Prerequisite: CHMA10H3 & CHMA11H3 Corequisite: BIOB11H3 or BIOB10Y3 Exclusion: BIO215H
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the specialist programs in Applied Microbiology, Cell and Molecular Biology (Co-op and non-Co-op), Biological Chemistry and the major program in Biochemistry. Additional students will be admitted as space permits.

BIOB32H3  Animal Physiology Laboratory
This course examines physiological mechanisms that control and coordinate the function of various systems within the body. The laboratory exercises examine properties of digestive enzymes, characteristics of blood, kidney function, metabolic rate and energetics, nerve function and action potentials, synaptic transmission, skeletal muscle function and mechanoreception. Corequisite: (BIOB30H3) or BIOB34H3 Exclusion: BIO252Y, BIO270H, BIO271H, (ZOO252Y)
Breadth Requirement: Natural Sciences

BIOB33H3  Human Development and Anatomy
A lecture and laboratory course which deals with the functional morphology of the human organism. The subject matter extends from early embryo-genesis through puberty to late adult life. Priority will be given to students in the Human Biology programs. Additional students will be admitted as space permits. Prerequisite: BIOA01H3 & BIOA02H3 Exclusion: ANA300Y, ANA301H, PMDB33H3
Breadth Requirement: Natural Sciences

BIOB34H3  Animal Physiology
An introduction to the principles of animal physiology rooted in energy usage and cellular physiology. A comparative approach is taken, which identifies both the universal and unique mechanisms present across the animal kingdom. Metabolism, respiration, circulation, water regulation, movement and neural circuits are the areas of principal focus. Prerequisite: BIOA01H3 and BIOA02H3 and CHMA10H3 and CHMA11H3 Exclusion: (BIOB30H3), BIO270H, BIO204H
Recommended Preparation: MATA29H3
Breadth Requirement: Natural Sciences

BIOB38H3  Plants and Society
How do plants feed humans? What are agricultural origins and what plant traits changed in domesticated plants? Human population is at 7 billion, but will climb to 10 billion in 2050. This will tax our planet’s ability to sustain life and environmentally sustainable food production will become more integral. Prerequisite: BIOA01H3 and BIOA02H3 Exclusion: (BIOC38H3), EEB202H
Breadth Requirement: Natural Sciences
BIOB50H3 Ecology
An introduction to the main principles of ecology, the science of the interactions of organisms with each other and with their environment. The course covers community and population ecology, and provides an emphasis on how ecology relates to other areas of biology, and to contemporary human and environmental issues.
Prerequisite: BIOA01H3 & BIOA02H3
Breadth Requirement: Natural Sciences

BIOB51H3 Evolutionary Biology
Students learn about development of evolutionary theory, maintenance of genetic variation, mechanisms of evolutionary change, adaptation, and current research topics in evolution.
Prerequisite: BIOA01H3 & BIOA02H3
Breadth Requirement: Natural Sciences

BIOB52H3 Ecology and Evolutionary Biology Laboratory
An introduction to field, lab and computational approaches to ecology and evolution. Laboratories will explore a variety of topics, ranging from population genetics to community ecology and biodiversity. Some lab exercises will involve outdoor field work.
Prerequisite: BIOA01H3 and BIOA02H3
Corequisite: BIOB50H3 or BIOB51H3
Breadth Requirement: Natural Sciences

BIOB98H3 Supervised Introductory Research in Biology
A course designed to facilitate introduction to, and experience in, ongoing laboratory or field research in biology. Supervision of the work is arranged by mutual agreement between student and instructor. Students must obtain a permission form from SW420B that is to be completed and signed by the student and supervisor (and which will include an outline of the work to be completed) and then returned to SW420B.
Note: This course DOES NOT satisfy any Biological Sciences program requirements.

BIOB99H3 Supervised Introductory Research in Biology
A course designed to facilitate introduction to, and experience in, ongoing laboratory or field research in biology. Supervision of the work is arranged by mutual agreement between student and instructor. Students must obtain a permission form from SW420B that is to be completed and signed by the student and supervisor (and which will include an outline of the work to be completed) and then returned to SW420B.
Note: BIOB99H3 is identical to BIOB88H3 but is intended as a second research experience. In order to be eligible for BIOB99H3, with the same instructor, the student and the instructor will have to provide a plan of study, the scope of which goes beyond the work of BIOB88H3.
Note: This course DOES NOT satisfy any Biological Sciences program requirements.
Prerequisite: BIOB98H3
Exclusion: BIOB99H3 may not be taken after or concurrently with BIOD95H3, BIOD98Y3 or BIOD99Y3.

BIOC10H3 Cell Biology: Proteins from Life to Death
This course builds on fundamental cell biology concepts using primary literature. This course will examine specific organelles and their functions in protein biogenesis, modification, trafficking, and quality control within eukaryotic cells. The experimental basis of knowledge will be emphasized and students will be introduced to hypothesis-driven research in cell biology.
Prerequisite: [BIOB10H3 & BIOB11H3] or BIOB10Y3
Exclusion: CSB428H, BIO315H
Recommended Preparation: BIOC12H3
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

BIOC12H3 Biochemistry I: Proteins & Enzymes
A lecture course describing factors involved in determining protein structures and the relationship between protein structure and function. Topics include: amino acids; the primary, secondary, tertiary and quaternary structures of proteins; protein motifs and protein domains; glycoproteins; membrane proteins; classical enzyme kinetics and allosteric enzymes; mechanisms of enzyme action.
Prerequisite: [[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3
Exclusion: CHMB62H3, BCH210H, BCH242Y, BCH310H
Recommended Preparation: CHMB42H3
Breadth Requirement: Natural Sciences

BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
A lecture course that introduces cellular metabolism, the process by which living organisms extract and utilize energy from their environment. Topics include: bioenergetics; oxidative phosphorylation; aspects of carbohydrate, lipid and amino acid metabolism; regulation of metabolism; and, the integration of metabolic pathways.
Prerequisite: [[BIOB10H3 & BIOB11H3] or BIOB10Y3] & CHMB41H3
Exclusion: CHMB62H3, BCH210H, BCH242Y, BCH310H
Breadth Requirement: Natural Sciences

BIOC14H3 Genes, Environment and Behaviour
This class will provide an overview of the role of genes in behaviour, either indirectly as structural elements or as direct participants in behavioural regulation. Topics to be covered are methods to investigate complex behaviours, specific examples of genetic effects on behaviour in animals and humans, and studies of gene-environment interactions.
Prerequisite: BIOB11H3 or BIOB10Y3
Breadth Requirement: Natural Sciences

BIOC15H3 Genetics
Topics for this lecture and laboratory (or project) course include: a brief review of DNA structure, transcription, and translation; inheritance and its chromosomal basis; gene interactions; sources and types of mutations and the relationship of mutation to genetic disease and evolution; genetic dissection of biological processes; genetic technologies and genomic approaches.
Prerequisite: [[BIOB10H3 & BIOB11H3] or BIOB10Y3] & [PSYB07H3 or STAB22H3]
Exclusion: BIO260H, HMB265H
Breadth Requirement: Natural Sciences
BIOC16H3 Evolutionary Genetics and Genomics
This course will discuss modern genetic and genomic techniques used to understand the maintenance of genetic variation in nature. Topics include DNA sequence evolution, molecular phylogenetics, methods of detecting selection, sequence alignments, and comparative genomics.
Prerequisite: BIOB51H3
Recommended Preparation: BIOC15H3
Breadth Requirement: Natural Sciences

BIOC17H3 Microbiology
This course presents an overview of the microbial world and introduces the students, in more detail, to the physiological, cellular and molecular aspects of bacteria. The laboratories illustrate principles and provide training in basic microbiological techniques essential to microbiology and to any field where recombinant DNA technology is used.
Prerequisite: [[BIOB10H3 and BIOB11H3] or BIOB10Y3]
Exclusion: MGY377H, (MBY377H)
Breadth Requirement: Natural Sciences

BIOC19H3 Animal Developmental Biology
Following a discussion of cellular and molecular events in early embryonic life, the development of several model systems will be analyzed such as erythropoiesis, lens development in the eye, spermatogenesis and myogenesis. Particular reference will be given to the concept that regulation of gene expression is fundamental to development.
Prerequisite: [BIOB10H3 & BIOB11H3] or BIOB10Y3
Exclusion: CSB328H
Breadth Requirement: Natural Sciences

BIOC21H3 Vertebrate Histology: Cells and Tissues
A study of the structure of cells and the various tissue types which make up the vertebrate body; epithelial, connective, muscle, nervous, blood, and lymphatic. Emphasis is placed on how form is influenced by function of the cells and tissues.
Prerequisite: [BIOB10H3 or BIOB10Y3] & (BIOB30H3) or BIOB34H3
Exclusion: ANA300Y
Breadth Requirement: Natural Sciences

BIOC23H3 Practical Approaches to Biochemistry
A lecture and laboratory course that introduces students to experimental approaches used in biochemical research. Topics include practical and theoretical aspects of: spectrophotometry; chromatography; electrophoresis; radioisotopes; enzyme assays, protein purification and approaches to identify protein-protein interactions. Students are expected to solve numerical problems involving these and related procedures.
Prerequisite: BIOB12H3 and BIOC12H3
Exclusion: BCH370H, BCH371H
Breadth Requirement: Natural Sciences

BIOC23H3 Plant Development and Biotechnology
A central question of developmental biology is how does a single cell become a complex organism. This lecture course focuses on cellular and cellular mechanisms that control developmental processes in plants, including embryonic, vegetative, reproductive development; hormone signal transduction pathways; analysis of mutants, transgenic plants and their connection to biotechnology.
Prerequisite: [BIOB10H3 and BIOB11H3] or BIOB10Y3
Exclusion: CSB340H, (BOT340H)
Breadth Requirement: Natural Sciences

BIOC22H3 Human Physiology I
An introduction to Human Physiology covering the function of neurons, the brain, hormones and our immune systems in both healthy and diseased states.
Prerequisite: BIOB34H3 or NROB60H3
Exclusion: (BIOB30H3), PSL300H
Breadth Requirement: Natural Sciences

BIOC33H3 Human Physiology II: Lecture and Laboratory
This course will cover the physiology of the human respiratory, cardiovascular, renal and digestive systems. Topics include cardiac function, ECG, blood flow/pressure regulation, pulmonary mechanics, gas transfer and transport, the control of breathing, sleep-related breathing disorders, kidney function, ion regulation, water balance, acid-base balance and digestive function/regulation.
Prerequisite: (BIOB30H3) or BIOB34H3 or NROB60H3 or BIO271H
Exclusion: BIOC34H3, PSL301H, (PSL302Y)
Breadth Requirement: Natural Sciences
NOTE: *Priority will be given to students enrolled in the Human Biology program. Additional students will be admitted only if space permits.

BIOC34H3 Human Physiology II: Lecture
The lecture component of BIOC34H3 is identical to that described above for BIOC33H3. Students will complete a series of computer-simulated laboratory exercises (on their own time) instead of practical lab sessions.
Prerequisite: (BIOB30H3) or BIOB34H3 or NROB60H3 or BIO271H
Exclusion: BIOC34H3, (PSL302Y), PSL301H
Breadth Requirement: Natural Sciences

BIOC37H3 Plants: Life on the Edge
Plants have evolved adaptations to maximize growth, survival and reproduction under various taxing environmental conditions. This course will study the great diversity of plant structures and function in relation to ecology, focusing mainly on the anatomy of flowering plants.
Prerequisite: BIOB38H3 or BIOB50H3 or BIOB51H3
Exclusion: EEB340H
Enrolment Limits: 48
Breadth Requirement: Natural Sciences

BIOC39H3 Immunology
This course introduces the molecular and cellular basis of the immune system. Topics include self versus non-self recognition, humoral and cell-mediated immune responses, and the structure and function of antibodies. The importance of the immune system in health and disease will be emphasized and topics include vaccination, autoimmunity, and tumour immunology.
Prerequisite: [[BIOB10H3 & BIOB11H3] or BIOB10Y3]
Exclusion: IMM340H, IMM341H, IMM350H, IMM351H
Breadth Requirement: Natural Sciences

BIOC40H3 Plant Physiology
An introduction to plant biology. Topics include plant and cell structure, water balance, nutrition, transport processes at the cell and whole plant level, physiological and biochemical aspects of photosynthesis, and growth and development in response to hormonal and environmental cues.
Prerequisite: [[BIOB10H3 and BIOB11H3] or BIOB10Y3] and BIOB38H3
Exclusion: (BIOB31H3), BIO251Y, (BOT251Y)
Breadth Requirement: Natural Sciences
BIOC50H3  Macroevolution
An overview of recent developments in evolutionary biology that focus on large-scale patterns and processes of evolution. Areas of emphasis may include the evolutionary history of life on earth, phylogenetic reconstruction, patterns of diversification and extinction in the fossil record, the geography of evolution, the evolution of biodiversity, and the process of speciation.
Prerequisite: BIOB50H3 & BIOB51H3
Exclusion: EEB362H
Breadth Requirement: Natural Sciences

BIOC51H3  Tropical Biodiversity Field Course
A course with preparatory lectures at UTSC and 1 week at a tropical field station. Ecological and evolutionary aspects of tropical biodiversity will be explored. Students must contact the instructor by September to enrol in this course.
Prerequisite: BIOB50H3, BIOB51H3 & permission of instructor. Note: Interested students should contact the instructor 4 months before the start of the course, and must be able to place a deposit towards the cost of airfare and accommodation.
Enrolment Limits: 15
Breadth Requirement: Natural Sciences

BIOC52H3  Ecology Field Course
Opportunity to experience hands-on learning through informal natural history walks, group projects, research projects in a small-class setting. The course covers basic principles and selected techniques of field ecology. The study of a variety of topics in population and community ecology, plant-animal interactions. Mandatory: occasional weekend field trips.
Corequisite: BIOB50H3 & BIOB51H3
Exclusion: EEB305H, BIO305H
Enrolment Limits: 15
Breadth Requirement: Natural Sciences

BIOC54H3  Animal Behaviour
Survey of the study of animal behaviour, emphasis on understanding behavioural patterns in the context of evolutionary theory. Topics include sexual selection, parental care, social behaviour, conflict and hypothesis testing in behavioural research.
Prerequisite: BIOB50H3 & BIOB51H3
Exclusion: EEB322H, ZOO322H
Breadth Requirement: Natural Sciences

BIOC58H3  Biological Consequences of Global Change
A lecture and tutorial course that addresses the key environmental factor that will dominate the 21st Century and life on the planet: Global Climate Change. The course will examine the factors that influence climate, from the formation of the earth to the present time, how human activities are driving current and future change, and how organisms, populations, and ecosystems are and will respond to this change. Finally, it will cover human responses and policies that can permit an adaptive response to this change.
Prerequisite: BIOB50H3 & BIOB51H3
Exclusion: EEB428H, GGR314H, BIO428H
Breadth Requirement: Natural Sciences

BIOC59H3  Advanced Population Ecology
The study of the interactions that determine the distribution and abundance of organisms on the earth. The topics will include an understanding of organism abundance and the factors that act here: population parameters, demographic techniques, population growth, species interactions (competition, predation, herbivory, disease), and population regulation. It will include an understanding of organism distribution and the factors that act here: dispersal, habitat selection, species interactions, and physical factors.
Prerequisite: BIOB50H3
Exclusion: EEB319H, BIO319H
Breadth Requirement: Natural Sciences

BIOC60H3  Winter Ecology
Canada is characterized by its long and harsh winters. Any Canadian plant or animal has evolved one of three basic survival strategies: (1) migration (avoidance), (2) hibernation, and (3) resistance. These evolutionary adaptations are discussed by the example of organisms from across the GTA through indoor and outdoor activities.
Prerequisite: BIOB50H3 or BIOB51H3
Enrolment Limits: 48
Breadth Requirement: Natural Sciences

BIOC61H3  Community Ecology and Environmental Biology
An examination of the theory and methodology of community analysis, with an emphasis on the factors regulating the development of ecosystems. The application of ecological theory to environmental problems is emphasized. Topics include: succession, productivity, nutrient supply, predation, competition, trophic dynamics, stability and disturbance, and effects of global change.
Prerequisite: BIOB50H3
Exclusion: EEB321H, BIO321H
Breadth Requirement: Natural Sciences

BIOC62H3  Role of Zoos in Conservation
This lecture and tutorial course explores strategic and operational aspects of zoos in conservation. Emphasis is on contemporary issues, including balance between animal welfare and species conservation; nutrition, health and behavioural enrichment for captive animals; in situ conservation by zoos; captive breeding and species reintroductions; and public outreach/education.
Prerequisite: BIOB50H3 & BIOB51H3
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

BIOC63H3  Conservation Biology
A lecture and tutorial course offering an introduction to the scientific foundation and practice of conservation biology. It reviews ecological and genetic concepts constituting the basis for conservation including patterns and causes of global biodiversity, the intrinsic and extrinsic value of biodiversity, the main causes of the worldwide decline of biodiversity and the approaches to save it.
Prerequisite: BIOB50H3 & BIOB51H3
Exclusion: EEB365H, BIO365H
Breadth Requirement: Natural Sciences
BIOC65H3 Environmental Toxicology
An introduction to the scientific study of the effects of toxic chemicals on biological organisms. Standard methods of assessing toxicant effects on individuals, populations, and communities are discussed. Special emphasis is placed on the chemistry of major toxicant classes, and on how toxicants are processed by the human body.
Prerequisite: BIOC50H3 & CHMA10H3 & CHMA11H3
Breadth Requirement: Natural Sciences

BIOC99H3 Biology Team Research
In this introduction to academic research, a group of 3-5 students work with a faculty supervisor and TA to develop a research proposal or implement a research project. Prior to registering, students must find a faculty supervisor, form a group, then submit a permission form to the department.
Prerequisite: (1) Enrolment in a UTSC Major or Specialist Subject Post offered by Biological Sciences and (2) completion of all second year core program requirements and (3) have at least 10.0 full credits and (4) a cumulative GPA of at least 3.0 and (5) a commitment from a Biology faculty member to serve as supervisor and (6) formation of a group that includes at least 2 other students
NOTE: The permission form may be downloaded from the website: http://www.utsc.utoronto.ca/biosci/resources-current-students

BIOD08H3 Theoretical Neuroscience
A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures, liquid state-machines and Bayesian optimality.
Same as NROD08H3
Prerequisite: [NROC34H3 or NROC64H3 or NROC69H3] and [MAT29H3 or MAT31H3] and [PSYB07H3 or STAB22H3]
Exclusion: NROD08H3
Breadth Requirement: Natural Sciences

BIOD17H3 Seminars in Cellular Microbiology
An overview of the most significant advances in cellular microbiology. Relevant scientific literature will be presented and discussed by the students in class and assignments. The curriculum will include cellular mechanisms of bacterial pathogenesis, invasion and intracellular survival of bacteria, and recognition and elimination of pathogenic bacteria by cells.
Prerequisite: BIOC17H3
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

BIOD19H3 Epigenetics in Health and Disease
A lecture/seminar/discussion class on the emerging field of environmental epigenetics. Course will cover basic epigenetic mechanisms, methods in epigenetic research, epigenetic control of gene function, and the role of epigenetics in normal development and human disease.
Prerequisite: BIOC14H3
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD21H3 Advanced Molecular Biology Laboratory
Applications of molecular technology continue to revolutionize our understanding of all areas of life sciences from biotechnology to human disease. This intensive laboratory, lecture / tutorial course provides students with essential information and practical experience in recombinant DNA technology, molecular biology and bio-informatics.
Prerequisite: BIOC12H3 and BIOC15H3 and BIOC17H3
Corequisite: BIOC12H3 (Note: Although listed as a corequisite, it is recommended that BIOC12H3 be taken in advance of BIOD21H3.)
Enrolment Limits: 48
Breadth Requirement: Natural Sciences
NOTE: *Priority will be given to students enrolled in the Specialist programs in Molecular Biology and Biotechnology (Co-op and non-Co-op). Additional students will be admitted only if space permits.

BIOD22H3 Molecular Biology of the Stress Response
This course is organized around a central theme, namely the expression of heat shock (stress) genes encoding proteins is important in cellular repair/protective mechanisms. Topics include heat shock transcription factors, heat shock proteins as 'protein repair agents' that correct protein misfolding, and diseases triggered by protein misfolding such as neurodegenerative disorders.
Prerequisite: BIOC15H3
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

BIOD23H3 Special Topics in Cell Biology
A lecture/seminar/discussion class on contemporary topics in Cell Biology. Students will explore the primary literature becoming familiar with experimental design and methodologies used to decipher cell biology phenomena. Student seminars will follow a series of lectures and journal club discussions.
Prerequisite: BIOC12H3
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

BIOD25H3 Genomics
A course considering the principles of genome organization and the utilization of genomic approaches to studying a wide range of problems in biology. Topics to be presented will include innovations in instrumentation and automation, a survey of genome projects, genomic variation, functional genomics, transcription profiling (microarrays), database mining and extensions to human and animal health and biotechnology.
Prerequisite: BIOC15H3
Enrolment Limits: 25
Breadth Requirement: Natural Sciences

BIOD26H3 Fungal Biology and Pathogenesis
A lecture and tutorial based course designed to provide an overview of the fungal kingdom and the properties of major fungal pathogens that contribute to disease in animals (including humans) and plants. This course will address the mechanisms and clinical implications of fungal infections and host defence mechanisms. Topics include virulence factors and the treatment and diagnosis of infection.
Prerequisite: BIOC17H3 or BIOC39H3
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

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BIOD27H3 Molecular Endocrinology
A lecture/seminar/discussion class on contemporary topics in endocrinology. The course provides a basic knowledge of endocrine systems encompassing hormone biosynthesis, metabolism, and physiologic actions. Signal transduction from growth factors and their receptors will be emphasized. Specific topics and advances in hormone and growth factor research will be examined.
Prerequisite: (BIOC30H3) or BIOC34H3 or BIOC32H3
Recommended Preparation: BIOC33H3 or BIOC34H3
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD29H3 Pathobiology of Human Disease
This lecture/seminar format course will critically examine selected topics in human disease pathogenesis. Infectious and inherited diseases including those caused by human retroviruses, genetic defects and bioterrorism agents will be explored. Discussions of primary literature will encompass pathogen characteristics, genetic mutations, disease progression and therapeutic strategies.
Corequisite: BIOC10H3 or BIOC17H3 or BIOC39H3
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

BIOD30H3 Plant Research and Biotechnology: Addressing Global Problems
Plant scientists working to address pressing global challenges will give presentations. In advance students will identify terminologies and methodologies needed to engage with the speaker and think critically about the research. Student teams will identify and develop background knowledge and go beyond speaker’s presentations with new questions and/or applications.
Prerequisite: BIOC38H3 & [one of BIOC15H3, BIOC31H3, BIOC37H3 or BIOC40H3]
Enrolment Limits: 30
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the Major Program in Plant Biology. Additional students will be admitted if space permits.

BIOD33H3 Comparative Animal Physiology
This course will examine how various physiological systems and anatomical features are specialised to meet the environmental challenges encountered by terrestrial and aquatic animals. Topics include respiratory systems and breathing, hearts and cardiovascular systems, cardiorespiratory control, animal energetics, metabolic rate, thermoregulation, defenses against extreme temperatures, hibernation and osmotic/ionic/volume regulation.
Prerequisite: BIOC33H3 or BIOC34H3
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

BIOD35H3 Sports Science
In this practical introduction to sports science, students will explore how basic science is used to enhance athlete performance. Modules will focus on basic and applied aspects of physiology, biomechanics, strength and conditioning, sports medicine, sports nutrition, and sports psychology. Taught at the Toronto Pan-Am Sports Centre (TPASC).
Prerequisite: BIOC33H3 or BIOC34H3
Recommended Preparation: Completion of an A-level Physics course
Enrolment Limits: 40
Breadth Requirement: Natural Sciences

BIOD37H3 Biology of Plant Stress
This course examines resistance mechanisms (anatomical, cellular, biochemical, molecular) allowing plants to avoid or tolerate diverse abiotic and biotic stresses. Topics include: pathogen defence; responses to temperature, light, water and nutrient availability, salinity, and oxygen deficit; stress perception and signal transduction; methods to study stress responses; and strategies to improve stress resistance.
Prerequisite: [[BIOC10H3 and BIOC11H3] or BIOC10Y3] and [BIOC40H3 or (BIOC31H3)]
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

BIOD43H3 Animal Movement and Exercise
A lecture and seminar/discussion course covering integrative, comparative animal locomotion and exercise physiology. Topics will include muscle physiology, neurophysiology, metabolism, energetics, thermoregulation and biomechanics. These topics will be considered within evolutionary and ecological contexts. Students will be expected to give a brief oral presentation on recently published basic research involving animal locomotion and/or exercise physiology.
Prerequisite: BIOC33H3 or BIOC34H3
Exclusion: HMB472H
Recommended Preparation: Completion of an A-level Physics course.
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

BIOD45H3 Animal Communication
Theoretical and biological aspects of communication in non-human animals; communication behaviour; decision-making and signal design; evolution of communication.
Prerequisite: (BIOC30H3) or BIOC34H3 & BIOC50H3 & BIOC51H3 & BIOC54H3
Exclusion: BIOC54H3
Breadth Requirement: Natural Sciences

BIOD48H3 Ornithology
An overview of the evolution, ecology, behaviour, and conservation of birds. Field projects and laboratories will emphasize identification of species in Ontario.
Prerequisite: BIOC50H3, BIOC51H3 & one of the following: BIOC50H3; BIOC54H3 or BIOC61H3
Exclusion: EEB380H, EEB384H
Breadth Requirement: Natural Sciences

BIOD52H3 Special Topics in Biodiversity and Systematics
A seminar exploration of current topics in biodiversity and systematics, including the molecular genetic, organismal, and community levels. Topics may include DNA barcoding, homology and developmental genetics, adaptive radiations, and morphological v.s. molecular systematics. The course is intended to develop ability in critical thinking and interpretation of the primary literature. Coursework will involve class presentations, discussions, and written analyses.
Prerequisite: BIOC55H3
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD53H3 Special Topics in Behavioural Ecology
An exploration into current topics in the field of behavioural ecology, the study of the evolutionary and ecological influences on animal behaviour. Topics may include sexual selection and conflict, social behaviour, communication, and behavioural mechanisms. Emphasis will be on current research and the quantitative and qualitative reasoning underlying behavioural ecological theory.
Prerequisite: BIOC54H3

Biology of Plant Stress
This course examines resistance mechanisms (anatomical, cellular, biochemical, molecular) allowing plants to avoid or tolerate diverse abiotic and biotic stresses. Topics include: pathogen defence; responses to temperature, light, water and nutrient availability, salinity, and oxygen deficit; stress perception and signal transduction; methods to study stress responses; and strategies to improve stress resistance.
Prerequisite: [[BIOC10H3 and BIOC11H3] or BIOC10Y3] and [BIOC40H3 or (BIOC31H3)]
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

Animal Movement and Exercise
A lecture and seminar/discussion course covering integrative, comparative animal locomotion and exercise physiology. Topics will include muscle physiology, neurophysiology, metabolism, energetics, thermoregulation and biomechanics. These topics will be considered within evolutionary and ecological contexts. Students will be expected to give a brief oral presentation on recently published basic research involving animal locomotion and/or exercise physiology.
Prerequisite: BIOC33H3 or BIOC34H3
Exclusion: HMB472H
Recommended Preparation: Completion of an A-level Physics course.
Enrolment Limits: 50
Breadth Requirement: Natural Sciences

Animal Communication
Theoretical and biological aspects of communication in non-human animals; communication behaviour; decision-making and signal design; evolution of communication.
Prerequisite: (BIOC30H3) or BIOC34H3 & BIOC50H3 & BIOC51H3 & BIOC54H3
Exclusion: BIOC54H3
Breadth Requirement: Natural Sciences

Ornithology
An overview of the evolution, ecology, behaviour, and conservation of birds. Field projects and laboratories will emphasize identification of species in Ontario.
Prerequisite: BIOC50H3, BIOC51H3 & one of the following: BIOC50H3; BIOC54H3 or BIOC61H3
Exclusion: EEB380H, EEB384H
Breadth Requirement: Natural Sciences

Special Topics in Biodiversity and Systematics
A seminar exploration of current topics in biodiversity and systematics, including the molecular genetic, organismal, and community levels. Topics may include DNA barcoding, homology and developmental genetics, adaptive radiations, and morphological v.s. molecular systematics. The course is intended to develop ability in critical thinking and interpretation of the primary literature. Coursework will involve class presentations, discussions, and written analyses.
Prerequisite: BIOC55H3
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

Special Topics in Behavioural Ecology
An exploration into current topics in the field of behavioural ecology, the study of the evolutionary and ecological influences on animal behaviour. Topics may include sexual selection and conflict, social behaviour, communication, and behavioural mechanisms. Emphasis will be on current research and the quantitative and qualitative reasoning underlying behavioural ecological theory.
Prerequisite: BIOC54H3

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BIOD54H3 Applied Conservation Biology
Canada has a complex conservation landscape. Through lectures and interactive discussions with leading Canadian conservation practitioners, this course will examine how conservation theory is put into practice in Canada from our international obligations to federal and provincial legislation and policies.
Prerequisite: BIOC62H3 or BIOC63H3
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

BIOD60H3 Spatial Ecology
The study of how space and scale influence ecological patterns and species coexistence. The course will cover three main topics: 1) spatial dynamics, such as spatial spread and dispersal models; 2) species coexistence with metapopulation/metacommunity, neutral and lottery models; and 3) spatial analysis of ecological communities. Basic concepts will be applied to ecological problems such as: species invasions, reserve design and understanding threats to island biodiversity.
Priority will be given to students enrolled in the specialist program in Biodiversity, Ecology and Evolution.
Prerequisite: BIO50H3 & STAB22H3 & [BIOC59H3 or BIOC61H3]
Enrolment Limits: 35
Breadth Requirement: Natural Sciences

BIOD62H3 Species and Speciation
A species is the basic unit of evolution and this course will focus on the process of how species evolve and what keeps established species apart. This course will thus provide the student with a deeper understanding of how Earth’s biodiversity evolved and is maintained under natural conditions.
Prerequisite: BIOC50H3
Exclusion: EEB340H
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD65H3 Pathologies of the Nervous System
An intensive examination of selected pathologies affecting the nervous system such as Alzheimer’s and Parkinson’s disease, multiple sclerosis, and stroke. These pathologies will be examined from an integrative perspective encompassing the pathogeneses, resulting symptoms, and current therapeutic approaches. This course requires critical examination of research articles.
Prerequisite: [BIOB11H3 or BIOC10Y3] & [one of NROC61H3 or NROC64H3 or NROC69H3]
Exclusion: (NROD65H3)
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD66H3 Causes and Consequences of Biodiversity
This course will combine lecture and student paper projects and presentations to explore the evolutionary and ecological processes that generate patterns of biological diversity as well as how species interactions and ecosystem function are affected by diversity. Of key interest will be how invasions, climate change, and habitat destruction affects diversity and function.
Prerequisite: BIO51H3 & [BIOC59H3 or BIOC61H3]
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

BIOD67H3 Inter-University Biology Field Course
Field courses offered by the Ontario Universities Program in Field Biology (OUPFB) in a variety of habitats and countries, usually during the summer. OUPFB modules (courses) are posted online in January, and students must apply by the indicated deadline.
Prerequisite: Varies by module (Permission of course co-ordinator required)
Exclusion: (BIOC67H3)
Breadth Requirement: Natural Sciences
NOTE: Additional information is provided on the Department of Biological Sciences website http://www.utsc.utoronto.ca/biosci/resources-current-students and on the OUPFB website http://www.oupfb.ca/index.html

BIOD95H3 Supervised Study in Biology
This course is designed to permit intensive examination of the primary literature of a select topic. Frequent consultation with the supervisor is necessary and extensive library research is required. The project will culminate in a written report.
Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, then returned to SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 5 sessions of group instruction will form part of the coursework.
Prerequisite: Satisfactory completion of 12.5 full credits, of which at least four must be Biology B- or C-level courses. Students must have permission of the instructor. In order to be eligible for BIOD95H3, with the same instructor as for BIOD98Y3 or BIOD99Y3, the student and instructor must provide a plan that goes beyond the work of those courses.

BIOD96Y3 Directed Research in Paramedicine
This course is designed to permit critical analysis of current topics relevant to the broad topic of paramedicine. Students will work independently but under the supervision of an industry leader, practitioner and/or researcher involved in paramedicine, who will guide the in-depth study/research. Students must also report to the course instructor and paramedicine program supervisor. Students must obtain a permission form from SW420B. At that time the student will be provided with an outline of the general schedule and general requirements for the course. Students are required to meet with the course instructor and program supervisor for complete course information and to complete their formal registration.
Prerequisite: Minimum of 14.0 credits including PMDC54Y3 and PMDC56H3 and [PSYB07H3 or STAB22H3]

BIOD98Y3 Directed Research in Biology
A course designed to permit laboratory or field research or intensive examination of a selected topic in biology. Supervision of the work is arranged by mutual agreement between student and instructor.
Students must obtain a permission form from SW420B that is to be completed and signed by the intended supervisor, and returned SW420B. At that time, the student will be provided with an outline of the schedule and general requirements for the course. 10 sessions of group instruction will form part of the coursework.
Prerequisite: Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.
Exclusion: CSB498Y, EEB498Y, (BOT460Y), (ZOO498Y)
BIOD99Y3 Directed Research in Biology
Identical to BIOD98Y3 but intended as a second research experience. In order to be eligible for BIOD99Y3, with the same instructor, the student and the instructor will have to provide a plan of study that goes beyond the work of BIOD98Y3.
Prerequisite: Satisfactory completion of 13.5 full credits, of which at least four must be Biology B- or C-level courses and permission of the instructor.
Exclusion: CSB498Y, EEB498Y, (BOT460Y), (ZOO498Y)
Chemistry

Faculty List

- D.E. Cormack, B.A., M.A.Sc. (Toronto), Ph.D. (California Inst. of Tech), Professor Emeritus
- S. Dallii, M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- D.J. Donaldson, B.Sc. (Carleton), Ph.D. (Carleton), Professor
- S. Fraser, B.A. (Oxford), Ph.D. (Cambridge), Professor Emeritus
- A. Hadzovic, B.Sc. (Sarajevo), Ph.D. (Toronto), Lecturer
- A. Izmaylov, M.Sc. (Moscow), M.A. (Rice), Ph.D. (Rice), Assistant Professor
- K. Kerman, B.Sc., M.Sc. (Aegean), Ph.D. (Japan Advanced Institute of Science and Technology), Associate Professor
- B. Kraatz, Vordiplom (Heinrich-Heine), Diplom (Kent at Canterbury), Ph.D. (Calgary), Professor
- R.A. McClelland, B.Sc., Ph.D. (Toronto), Professor Emeritus
- L. Mikhaylichenko, M.Sc., Ph.D. (Krasnodar, Russia), Associate Professor, Teaching Stream
- W. Restivo, B.Sc. (Toronto), Associate Professor, Teaching Stream
- E.L.O. Sauer, B.Sc. (Toronto), Ph.D. (Ottawa), Associate Professor, Teaching Stream
- A. Simpson, B.Sc., Ph.D. (Birmingham), Professor
- M. Simpson, B.Sc. (Alberta), Ph.D. (Alberta), Professor
- R. Soong, B.Sc. (Toronto), Ph.D. (Toronto), Senior Research Associate
- J.C. Thompson, B.A., Ph.D. (Cambridge), Professor Emeritus
- T.T. Tidwell, B.S. (Georgia Inst. Tech.), Ph.D. (Harvard), Professor Emeritus
- A. Walker, B.Sc., Ph.D. (Nottingham), Professor Emeritus
- F. Wania, Dipl.Geook. (Bayreuth), Ph.D. (Toronto), Professor
- X. Zhang, B.Sc., M.Sc. (Shanghai), Ph.D. (Basel), Assistant Professor

Co-ordinator of First Year Studies in Chemistry: X. Zhang (416-287-7202) Email: xazhang@utsc.utoronto.ca

Chemistry can be viewed as both a challenging intellectual pursuit and a powerful, practical tool for developing and handling the resources of our contemporary society. A sound knowledge of the fundamental concepts of chemistry is useful to any student in the Physical and Environmental or Life Sciences.

The basic courses in chemistry are CHMA10H3 and CHMA11H3 which must be taken by those who wish to take further chemistry courses or who require chemistry for another science. Completion of CHMA10H3 and CHMA11H3 is required before any of the B-level courses in chemistry can be taken. These are divided according to the following sub-disciplines: Inorganic Chemistry, Analytical Chemistry, Physical Chemistry, Environmental Chemistry and Organic Chemistry. Thereafter, one can proceed to advanced-level courses at the C- and D-level.

Students who wish to enrol in St. George 400-series courses should note that completion of the following groups of courses, together with their co-requisite and prerequisites, will normally ensure admission to the St. George courses indicated, provided that B standing or permission of the instructor is obtained.

To enter St. George Series 430, complete the following U of T Scarborough courses:

CHMA10H3
CHMA11H3
CHMB16H3
CHMB31H3
CHMC31Y3

To enter St. George Series 440 (except 447), complete the following U of T Scarborough courses:

CHMA10H3
CHMA11H3
CHMB41H3
CHMB42H3
CHMC41H3/CHMC42H3 & CHMC47H3

Note: Timetabling constraints usually preclude U of T Scarborough C-level and St. George 400-level courses being taken in the same year.

Guidelines for course selection

While courses in Physics do not appear among the prerequisites or co-requisites of most courses in Chemistry, students are urged to take [PHYA10H3 & PHYA21H3] early in their Programs. Thus, the suggested first-year Program in Chemistry includes CHMA10H3, CHMA11H3, MATA30H3, MATA36H3, PHYA10H3 and PHYA21H3. Students interested in Biological Chemistry or Biochemistry should also include BIOA01H3 and BIOA02H3.

Completion of one of the Specialist or Major Programs listed below can lead to a number of career opportunities in industry, research, teaching, and government. Students who are interested in these Programs are urged to consult with the supervisors early in their academic careers.

Co-operative Offerings
Co-op Supervisor of Studies: S. Dalili (416-287-7215) Email: sdalili@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Eligible Programs of Study
The following Co-operative (Co-op) programs in Chemistry are available at UTSC:
- Specialist in Biological Chemistry
- Specialist in Chemistry
- Major in Biochemistry
- Major in Chemistry

Note: Students interested in selecting either of the Major Co-operative programs require prior approval from the Co-op Supervisor of Studies.

The Co-op programs in Chemistry allow students to combine their chosen academic program with an integrated and complementary work experience. Students are required to complete the program requirements of any one of the above listed non-Co-op Specialist Programs, or non-Co-op Major Programs within their 20-credit degree program. They will also complete three work terms of four months each, as well as a specially designed series of enhancement seminars. The overall purpose of these Co-op Programs is to provide students with an educational milieu that will allow them to develop as highly qualified scientists, and with excellent experience in both the academic and workplace environments.

For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are a cumulative GPA of at least 2.50 and the completion of all course prerequisites as noted in the Program Admission section below.

Program Admission
Students must meet the following requirements to gain entry into their desired program area:
1. Biological Chemistry (Specialist): 4.0 full credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, MATA30H3, [MATA35H3 or MATA36H3], PHYA10H3 and PHYA21H3
2. Chemistry (Specialist): 4.0 full credits including CHMA10H3, CHMA11H3, MATA30H3, MATA36H3, PHYA10H3 and PHYA21H3
3. Biochemistry (Major): 4.0 full credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, MATA30H3 and [MATA35H3 or MATA36H3]
4. Chemistry (Major): 4.0 full credits including CHMA10H3, CHMA11H3, MATA30H3, MATA36H3, PHYA10H3 and PHYA21H3

Work Terms
To be eligible for their first work term, students must have completed at least 7.0 full credits. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

Students pursuing either of the Specialist programs alternatively have the option to pursue a 12 month internship, which will take place in their 4th year, in lieu of the traditional Co-op model which requires the completion of 3 work terms, each 4 months in length. The decision to pursue either the Co-op stream or the Internship stream must be communicated to the Co-op Office upon completion of the first year of study. Students must have completed a minimum of 15 FCE, including all 3rd year requirements of their Specialist program, to pursue internship opportunities. Students will not be permitted to pursue internship opportunities if they have completed more than 17.5 FCE. All Arts & Science Co-op Work Term Preparation Activities must also be complete prior to competing for internship opportunities.

All program registrations must be approved and confirmed each year by the Supervisor of the Co-op Program and the Supervisor of the particular program(s).

Students are individually responsible for ensuring that they have correctly completed all program and degree requirements for graduation.

Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching
The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options include:
- Biological Chemistry (Specialist), Honours Bachelor of Science/ Master of Teaching
- Biological Chemistry (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Biochemistry (Major), Honours Bachelor of Science/ Master of Teaching
- Biochemistry (Major Co-op), Honours Bachelor of Science/ Master of Teaching
Chemistry Programs

SPECIALIST PROGRAM IN BIOLOGICAL CHEMISTRY (SCIENCE)

Supervisor: W. Restivo (416-287-7222) Email: restivo@utsc.utoronto.ca
This program is intended for students who want to specialize in Chemistry, but who are also interested in the chemistry of living systems.

Admission to Biological Chemistry Specialist
Students may apply to this program after completing at least 4.0 FCE including: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, MATA30H3 and PHYA10H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar’s website for information on program (Subject POSt) selection at www.utsc.utoronto.ca/subjectpost.

Program Requirements
The program requires the completion of the following 15.0 full credits:

First Year:
BIOA01H3 Life On Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA30H3 Calculus I for Physical Sciences
[MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences]
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA

Second Year:
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspect of Cellular and Genetic Processes
BIOB12H3 Laboratory for Cell and Molecular Biology
CHMB31H3 Introduction to Inorganic Chemistry
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II

Second or Third Year:
CHMB16H3 Techniques in Analytical Chemistry
CHMB21H3 Chemical Structure and Spectroscopy
CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
STAB22H3 Statistics I

Third Year:
BIOC12H3 Biochemistry I: Proteins and Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC23H3 Practical Approaches to Biochemistry
CHMC47H3 Bio-Organic Chemistry

Third or Fourth Year:
CHMC11H3 Principles of Analytical Instrumentation
CHMC31Y3 Intermediate Inorganic Chemistry
[CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]

Fourth Year:
Chemistry

CHMD79H3  Topics in Biological Chemistry
1.5 full credits in D-level or 400-level CHM courses including one of the following courses:
CHMD90Y3 Directed Research
CHMD91H3 Directed Research
CHMD92H3 Advanced Chemistry Laboratory Course
and at least 0.5 full credit from the following:
CHMD69H3  Bioinorganic Chemistry
CHMD71H3  Pharmaceutical Chemistry

SPECIALIST PROGRAM IN CHEMISTRY (SCIENCE)

Supervisor: Andre Simpson (416-287-7547) Email: andre.simpson@utoronto.ca
This Program is meant for students who are interested in obtaining a strong background in all aspects of modern chemistry.

Admission to Chemistry Specialist
Students may apply to this program after completing at least 4.0 FCE, including CHMA10H3, CHMA11H3, PHYA10H3, PHYA21H3, and 1.0 FCE in either MATA23H3, MATA30H3 or MATA36H3 with a cumulative grade point average (CGPA) of at least 2.0. Application for admission to the program is made to the registrar through ROSI in April/May and July/August. See the UTSC Registrar’s website for information on program (Subject POSt) selection at www.utsc.utoronto.ca/subjectpost.

Program Requirements
The Program requires completion of 14.0 full credits as follows:

First Year:
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA23H3 Linear Algebra I
MATA30H3 Calculus I for Physical Sciences
MATA36H3 Calculus II for Physical Sciences
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
STAB22H3 Statistics I

Second Year:
CHMB16H3 Techniques in Analytical Chemistry
CHMB21H3 Chemical Structure and Spectroscopy
CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
CHMB31H3 Introduction to Inorganic Chemistry
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
CHMB62H3 Introduction to Biochemistry
MATB41H3 Techniques of Calculus of Several Variables I

Third Year:
CHMC11H3 Principles of Analytical Instrumentation
CHMC16H3 Analytical Instrumentation
[CHMC20H3 Intermediate Physical Chemistry or CHMC21H3 Topics in Biophysical Chemistry]
CHMC31Y3 Intermediate Inorganic Chemistry
[CHMC41H3 Organic Reaction Mechanisms or CHMC42H3 Organic Synthesis]

Fourth Year:
PSCD02H3 Current Questions in Mathematics and Science
and
0.5 full credit in any C-level or 300-level CHM course not already taken
and
2.0 full credits in any D-level or 400-level CHM course including one of the following courses:
CHMD90Y3 Directed Research
CHMD91H3 Directed Research
CHMD92H3 Advanced Chemistry Laboratory Course
SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY (SCIENCE)

See the Environmental Science section of this Calendar for program requirements.

MAJOR PROGRAM IN BIOCHEMISTRY (SCIENCE)

Supervisor: Alen Hadzovic (416-287-5602) Email: alen.hadzovic@utoronto.ca

This Program places a greater emphasis on the biological aspects of chemistry than does the general Chemistry Major Program. It is offered for students who are primarily interested in chemistry but also want to study the chemistry of living systems.

Program Requirements
Students should complete the following 8.5 full credits:

First Year:
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA30H3 Calculus I for Physical Sciences
[MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences]

Second and Later Years:
BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspect of Cellular and Genetic Processes
BIOB12H3 Cell & Molecular Biology Laboratory
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics & Metabolism
BIOC23H3 Practical Approaches to Biochemistry
CHMB16H3 Techniques in Analytical Chemistry
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
CHMC47H3 Bio-Organic Chemistry
And 0.5 credit from the following:
CHMB20H3* Chemical Thermodynamics and Elementary Kinetics
CHMB23H3* Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
CHMB31H3 Introduction to Inorganic Chemistry
CHMB55H3 Environmental Chemistry
ChMC11H3 Principles of Analytical Instrumentation
CHMC41H3 Organic Reaction Mechanisms
CHMC42H3 Organic Synthesis

* If CHMB20H3 or CHMB23H3 is selected, PHYA10H3 is required.

Note, however, that this program cannot be combined with the Major Program in Chemistry. When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements).

MAJOR PROGRAM IN CHEMISTRY (SCIENCE)

Supervisor: S. Mikhailichenko (416-287-7207) Email: mikhay@utsc.utoronto.ca

This Program offers the possibility of obtaining an introduction to all of the sub-disciplines of Chemistry.

Program Requirements
Students should complete the following 8.5 full credits:

First Year:
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA30H3 Calculus I for Physical Sciences
MATA36H3 Calculus II for Physical Sciences
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
Second and Later Years:
CHMB16H3 Techniques in Analytical Chemistry
CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
CHMB31H3 Introduction to Inorganic Chemistry
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
CHMB62H3 Introduction to Biochemistry

and

2.5 full course credits in CHM of which at least 2.0 must be at the C- or D-level and 0.5 of which must be at the D-level. One of these C- or D-level half credits must include a laboratory component. **

** Students should note that if they are going to select CHMC20H3/CHMC21H3, MATA23H3 and MATB41H3 will need to be taken in addition to their other program requirements.

Note, however, that this program cannot be combined with the Major Program in Biochemistry. When selecting their course of studies, students should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements).

Chemistry Courses

CHMA10H3 Introductory Chemistry I: Structure and Bonding
This course will introduce the study of chemical transformations of matter, from a macroscopic and microscopic perspective. It starts with a quantitative description of gases, solids and solutions and develops ideas of bonding and structure in chemical compounds with a particular emphasis on organic and biological molecules. This course includes a three hour laboratory every other week.
Exclusion: CHM120H, CHM140Y, CHM151Y
Recommended Preparation: Grade 12 Chemistry and [Grade 12 Advanced Functions or Grade 12 Calculus]
Breadth Requirement: Natural Sciences
NOTE: MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.

CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
In this course reactions and equilibria in chemical systems are explored through their thermodynamic properties and chemical kinetics. Acid/base and solubility equilibria will be discussed along with topics in electrochemistry.
This course includes a three hour laboratory every other week.
Prerequisite: CHMA10H3
Exclusion: CHM139H, CHM140Y, CHM151Y
Recommended Preparation: MATA30H3 and [MATA35H3 or MATA36H3].
Breadth Requirement: Natural Sciences
NOTE: MATA30H3 and [MATA35H3 or MATA36H3] are required for some higher level Physical and Environmental Sciences courses.

CHMB16H3 Techniques in Analytical Chemistry
An introduction to the principles and methods of classical analysis and the provision of practical experience in analytical laboratory techniques. The course deals primarily with quantitative chemical analysis. Classical methods of volumetric analysis, sampling techniques, statistical handling of data are studied, as well as a brief introduction to spectro-chemical methods. This course includes a four hour laboratory every week.
Prerequisite: CHMA10H3 and CHMA11H3 and MATA30H3 and [MATA35H3 or MATA36H3].
Exclusion: CHM217H
Recommended Preparation: STAB22H3
Breadth Requirement: Natural Sciences

CHMB20H3 Chemical Thermodynamics and Elementary Kinetics
The concept of chemical potential; phase equilibria; solutions; chemical equilibria (including electrochemical applications); elementary reactions; multi-step and coupled reactions (with biochemical applications); elementary collision theory and transition state theory.
Prerequisite: [CHMA10H3 and CHMA11H3] and MATA30H3 and [MATA35H3 or MATA36H3] and PHYA10H3
Exclusion: CHMB23H3, CHM220H, CHM221H, CHM223H, CHM225Y, JCP221H
Breadth Requirement: Natural Sciences
NOTE: PHYA21H3 and MATB41H3 are prerequisites for the C-level physical chemistry courses.

CHMB21H3 Chemical Structure and Spectroscopy
Atomic structure and spectra; term symbols and their meaning; valence bond theory; LCAO-MO; molecular spectroscopies.
Prerequisite: CHMB20H3
Exclusion: CHM223H, CHM225Y
Recommended Preparation: MATA23H3
Breadth Requirement: Natural Sciences

CHMB23H3 Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice
This course explores the concepts of chemical potential, phase equilibria, solutions, chemical equilibria (including electrochemical applications), elementary reactions, multi-step and coupled reactions (with biochemical applications), elementary collision theory and transition state theory.
Prerequisite: CHMA10H3 and CHMA11H3 and MATA30H3 and [MATA35H3 or MATA36H3] and PHYA10H3
Exclusion: CHMB20H3, CHMB21H3, CHM225Y, JCP221H/CHM221H
Enrolment Limits: Restricted to students in the following programs:
Specialist in Biological Chemistry, Specialist in Chemistry, Major in Biochemistry, Major in Chemistry
Breadth Requirement: Natural Sciences
NOTE: Lectures are shared with CHMB20H3. In addition, there is a lab every other week. PHYA21H3 and MATB41H3 are prerequisites for the C-level physical chemistry courses.

CHMB31H3 Introduction to Inorganic Chemistry
Fundamental periodic trends and descriptive chemistry of the main group elements are covered. The topics include structures, bonding and reactivity; solid state structures and energetics; and selected chemistry of Group 1, 2, and 13-18. The course has an accompanying practical (laboratory) component taking place every second week.
Prerequisite: CHMA10H3 and CHMA11H3
Exclusion: CHM238Y, CHM231H
Breadth Requirement: Natural Sciences
CHMB41H3  Organic Chemistry I
Chemical bonding and an introduction to aliphatic and aromatic compounds. Conformational analysis and stereochemistry. Free radical reactions of alkanes. Chemistry of alkenes, dienes, and alkynes. Substitution and elimination reactions. This course includes a four hour laboratory every other week.
Prerequisite: CHMA10H3 and CHMA11H3
Exclusion: CHM138H, CHM151Y
Breadth Requirement: Natural Sciences

CHMB42H3  Organic Chemistry II
Spectroscopy of organic compounds. Aromatic substitution. Chemistry of carbonyl compounds. An introduction to the chemistry of biologically important compounds, including heterocycles, carbohydrates, amino acids, and nucleic acids.
This course includes a four hour laboratory every other week.
Prerequisite: CHMA11H3 & CHMA10H3
Exclusion: CHM247H, CHM249H
Breadth Requirement: Natural Sciences

CHMB43Y3  Organic Chemistry I and II
This course provides a comprehensive introduction to the field of organic chemistry. Major topics include organic acids/bases, stereochemistry, substitution/elimination mechanisms, reactions of alkenes/alkynes, radicals, aromatic compounds, carbonyl compounds, oxidation/reduction, radicals, spectroscopy, heterocycles and carbohydrates. Includes a 4 hour lab and 6 hours of lecture each week.
Prerequisite: Completion of at least 4.0 credits, including CHMA10H3 and CHMA11H3. Minimum cumulative GPA of 2.7. Permission of instructor.
Enrolment Limits: 44
Breadth Requirement: Natural Sciences

CHMB55H3  Environmental Chemistry
An investigation of aspects of chemical substances and processes as they occur in the environment, including both naturally occurring and synthetic chemicals.
This course will include an introduction to atmospheric chemistry, aqueous chemistry, some agricultural and industrial chemistry, and chemical analysis of contaminants and pollutants.
Prerequisite: CHMA10H3 & CHMA11H3
Exclusion: CHM310H
Breadth Requirement: Natural Sciences

CHMB62H3  Introduction to Biochemistry
This course is designed as an introduction to the molecular structure of living systems. Topics will include the physical and chemical properties of proteins, enzymes, fatty acids, lipids, carbohydrates, metabolism and biosynthesis. Emphasis will be placed on the relationships between the chemical structure and biological function.
Prerequisite: CHMA10H3, CHMA11H3, CHMB41H3
Breadth Requirement: Natural Sciences

CHMC11H3  Principles of Analytical Instrumentation
An introduction to the workings and application of modern analytical instrumentation. A range of modern instrumentation including NMR spectroscopy, Mass Spectrometry, Microscopy. Light Spectroscopy (visible, Ultra Violet, Infrared, Fluorescence, Phosphorescence), X-ray, Chromatography and electrochemical separations will be addressed. Principles of measurement; detection of photons, electrons and ions; instrument and experiment design and application; noise reduction techniques and signal-to-noise optimization will be covered.
Prerequisite: CHMB16H3
Exclusion: CHM317H
Recommended Preparation: CHMB20H3 & CHMB21H3
Breadth Requirement: Natural Sciences

CHMC16H3  Analytical Instrumentation
A laboratory course to complement CHMC11H3, Principles of Analytical Instrumentation.
This course provides a practical introduction and experience in the use of modern analytical instrumentation with a focus on the sampling, sample preparation (extraction, clean-up, concentration, derivatization), instrumental trace analysis and data interpretation of various pharmaceutical, biological and environmental samples.
This course includes a four hour laboratory every week.
Prerequisite: CHMC11H3
Exclusion: CHM317H
Breadth Requirement: Natural Sciences

CHMC20H3  Intermediate Physical Chemistry
Basic statistical mechanics and applications to thermochemistry and kinetics; intermolecular interactions; concepts in reaction dynamics. Principles of measurement; detection of photons, electrons and ions; instrument and experiment design and application; noise reduction techniques and signal-to-noise optimization will be covered.
Prerequisite: CHMB23H3 & CHMB21H3 & MATB41H3 & PHYA21H3
Breadth Requirement: Natural Sciences

CHMC21H3  Topics in Biophysical Chemistry
Advanced topics in Physical Chemistry with emphasis on biochemical systems. Spectroscopic methods for (bio) molecular structure determination, including IR, NMR, UV/VIS; colloid chemistry; polymers and bio-polymers, bonding structure and statistical mechanics; physical chemistry of membranes, active transport and diffusion; oscillatory (bio)chemical reactions.
Prerequisite: [CHMB20H3 or CHMB23H3] & CHMB21H3 & MATB41H3 & PHYA21H3
Breadth Requirement: Natural Sciences

CHMC25H3  Quantum Chemistry
This course provides a comprehensive introduction to the field of computational quantum chemistry. It is organized to give a hands-on experience in applying modern computational methods (e.g. density functional theory) for investigating various physical properties of molecules and materials: vibrational and electronic spectroscopy, magnetic and electric field response properties.
Prerequisite: CHMB21H3 or PHYB56H3. Minimum cumulative GPA of 2.7. Permission of instructor.
Enrolment Limits: 40
Breadth Requirement: Natural Sciences
CHMC31Y3 Intermediate Inorganic Chemistry
A detailed discussion of the structure, bonding, spectroscopy and reactivity of transition metal compounds. After an overview of descriptive chemistry, the focus is on coordination and organometallic chemistry, with an introduction to catalysis and biocoordination chemistry. The laboratory focuses on intermediate and advanced inorganic syntheses, and classical and instrumental characterization methods. This laboratory is six hours in duration and occurs every week.
Prerequisite: CHMB16H3 and [CHMB20H3 or CHMC23H3] and CHMB31H3 and CHMB42H3
Exclusion: CHM331H
Enrolment Limits: 20
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students in the Specialist programs in Biological Chemistry and Chemistry.

CHMC41H3 Organic Reaction Mechanisms
Theory and mechanisms of organic reactions; principles of structure, introduction to aromaticity, spectroscopy and polymers. Theories of bonding. The laboratory experiments are designed to complement the topics covered in lectures. Offered in odd numbered years, alternating years with CHMC42H3.
This course includes a four hour laboratory every week.
Prerequisite: CHMB41H3 & CHMB42H3
Exclusion: CHM348H
Breadth Requirement: Natural Sciences

CHMC42H3 Organic Synthesis
Principles of synthesis organic and functional group transformations; compound stereo-chemistry, spectroscopy and structure elucidation. Offered in even-numbered years alternating with CHMC41H3.
This course includes a four hour laboratory every week.
Prerequisite: CHMB41H3 & CHMB42H3
Exclusion: CHM346H
Breadth Requirement: Natural Sciences

CHMC47H3 Bio-Organic Chemistry
The chemistry of heterocycles, nucleic acids, terpenes, steroids and other natural products: amino acids, proteins and carbohydrates; introduction to enzyme structure and catalysis. This course includes a four hour laboratory every week.
Prerequisite: CHMB41H3 & CHMB42H3
Exclusion: CHM347H
Breadth Requirement: Natural Sciences

CHMD16H3 Environmental and Analytical Chemistry
Students will learn about analytical techniques used in environmental chemistry, including: gas and liquid chromatography, mass spectrometry, atomic absorption, and ultraviolet-visible spectroscopy. Environmental sampling and ecotoxicology will also be covered. Students will carry out laboratory analyses and receive hands-on training with analytical instrumentation commonly used in environmental chemistry.
Prerequisite: CHMB55H3 and CHMC11H3
Exclusion: CHMC16H3, CHM317H, CHM410H
Enrolment Limits: 18
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the Specialist/Specialist Co-op in Environmental Chemistry. Additional students will be admitted as space permits.

CHMD39H3 Topics in Inorganic Chemistry
Advanced topics in inorganic chemistry will be covered at a modern research level. The exact topic will be announced in the Winter Session prior to the course being offered.
Prerequisite: Permission of the instructor. Normally only for individuals who have completed fifteen full credits, including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programs.

CHMD59H3 Topics in Environmental Chemistry
Advanced topics in environmental chemistry will be covered at a modern research level. The exact topic will be announced in the Winter Session prior to the course being offered.
Prerequisite: Permission of the instructor. Normally recommended for individuals who have completed fifteen full credits, including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programs.

CHMD69H3 Bioinorganic Chemistry
This course will explore the role of metals cations in living systems. After a survey of biologically relevant ligands (such as amino and nucleic acids) the focus shifts to metal uptake and function. The course also provides a brief introduction to medicinal inorganic chemistry.
Prerequisite: [[BIOC12H3 & BIOC13H3] or CHMB22H3] & CHMC31Y3
Exclusion: CHM333H, CHM437H
Breadth Requirement: Natural Sciences
NOTE: Students are cautioned that CHMD71H3 is not offered in the same academic year as CHMD69H3.

CHMD71H3 Pharmaceutical Chemistry
The course focuses on the important concepts in the design and synthesis of drugs. The course may include the principles of pharmacology, drug metabolism and toxicology. Strategies for generating valuable active compounds and structure/activity relationships involved in selective transformations of available building blocks into diversely functionalized derivatives will be discussed. The course provides an overview of reactions used at different stages of the drug development process, using representative examples from the literature and case studies of drugs where applicable.
Prerequisite: [CHMC41H3 or CHMC42H3] & CHMC47H3
Exclusion: CHM440H
Recommended Preparation: [BIOC12H3 and BIOC13H3] or CHMB62H3
Breadth Requirement: Natural Sciences
NOTE: Students are cautioned that CHMD71H3 is not offered in the same academic year as CHMD71H3.

CHMD79H3 Topics in Biological Chemistry
Advanced topics in biological chemistry will be covered at a modern research level. The exact topic will be announced in the Winter Session prior to the course being offered.
Prerequisite: Permission of the instructor. Normally recommended for individuals who have completed fifteen full credits, including at least two C-level Chemistry courses, and who are pursuing one of the Chemistry Programs.

CHMD89H3 Introduction to Green Chemistry
The twelve principles of green chemistry will be discussed in the context of developing new processes and reactions (or modifying old ones) to benefit society while minimizing their environmental impact. Examples will be taken from the recent literature as well as from industrial case studies.
Prerequisite: CHMB31H3 & [CHMC41H3 or CHMC42H3]
Recommended Preparation: CHMC31Y3
Enrolment Limits: 15
Breadth Requirement: Natural Sciences

CHMD90Y3 Directed Research
Course Coordinators: Artur Izmaylov (416 208-2951) aizmaylov@utsc.utoronto.ca and Frank Wania (416 287-7225) frank.wania@utoronto.ca

This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 260 hours of work are expected in CHMD90Y3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.

Please see the note below on registration in CHMD90Y3.

Prerequisite: Permission of the course coordinator.
Exclusion: CHMD91H3, CHMD92H3

NOTE: Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April.

Applications will consist of: 1) A letter of intent indicating the student’s wish to enrol in CHMD90Y3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the requirements below will be admitted to CHMD90Y3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD91H3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give “permission of instructor” on this form.

CHMD91H3 Directed Research
Course Coordinators: Artur Izmaylov (416 208-2951) Email: aizmaylov@utsc.utoronto.ca and Frank Wania (416 287-7225) Email: frank.wania@utoronto.ca

This course involves participation in an original research project under the direction of a faculty supervisor. Approximately 130 hours of work are expected in CHMD91H3. The topic will be selected in conference with the course coordinator who will provide project descriptions from potential faculty supervisors. Progress will be monitored during periodic consultations with the faculty supervisor as well as the submission of written reports. The final results of the project will be presented in a written thesis as well as an oral and/or poster presentation at the end of the term.

Please see the note below on registration in CHMD91H3.

Prerequisite: Permission of the course coordinator.
Exclusion: CHMD90Y3, CHMD92H3

NOTE: Students must apply to the course coordinator for admission into this course. Applications must be received by the end of August for enrolment in the fall/spring semester; for enrolment in the summer semester, applications must be received by the end of April.

Applications will consist of: 1) A letter of intent indicating the student’s wish to enroll in either CHMD90Y3 or CHMD91H3; 2) A list of relevant courses successfully completed as well as any relevant courses to be taken during the current session; 3) Submission of the preferred project form indicating the top four projects of interest to the student. This form is available from the course coordinator, along with the project descriptions. Generally, only students meeting the following requirements will be admitted to CHMD91H3: 1) A Cumulative Grade Point Average of 2.5. Students who do not meet this requirement should consider enrolling in CHMD92H3 instead; 2) Completion of at least 15 full credits; 3) Completion of at least 1.0 full credits of C-level chemistry or biochemistry courses containing a lab component (i.e. CHMC16H3, CHMC31Y3, CHMC41H3, CHMC42H3, CHMC47H3, BIOC23H3). Once the course coordinator (or designate) has approved enrolment to CHMD91H3, s/he will sign the course enrolment form for submission to the registrar. Note that the course coordinator (or designate) is the only one permitted to give “permission of instructor” on this form.

CHMD92H3 Advanced Chemistry Laboratory Course
A lab course designed to introduce students to modern synthetic methods while performing multi-step syntheses. The course will consist of two, six hour lab days every week. Students will develop advanced practical synthetic and analytic skills by working with important reactions taken from different chemistry disciplines.

Prerequisite: One of CHMC41H3, CHMC42H3 or CHMC31Y3
Exclusion: CHMD90Y3, CHMD91H3
Enrolment Limits: 10
Breadth Requirement: Natural Sciences
City Studies

Faculty List

- A. Allahwala, B.A., M.A. (Freie Universität Berlin), Ph.D. (York), Associate Professor, Teaching Stream
- M. Buckley, B.Sc., M.E.S. (York), Ph.D. (Oxford), Assistant Professor
- S.C. Bunce, B.A. (Guelph), M.E.S. Pl. (York), Ph.D. (York), Assistant Professor
- S. Farber, B.A (McGill), M.S.A. (Ryerson), Ph.D (McMaster), Assistant Professor
- A. Flynn, B.A., (Concordia), M.A., (Simon Fraser), L.L.M. (Berkely), J.D., (Osgoode Hall), Assistant Professor
- J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
- M.L. Kohn, B.A. (Williams College), M.A., Ph.D. (Cornell University), Professor
- J. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc. (pl.), Ph.D. (Toronto), Professor
- D. Silver, B.A. (Berkeley), M.A., Ph.D. (Chicago), Assistant Professor

For curriculum inquiries please contact the CIT Program Advisor. Email: cit-advisor@utsc.utoronto.ca

A pre-professional Major Program for students interested in career paths that may be city-related. Students acquire a combination of conceptual, methodological, and critical skills relevant in a variety of professional fields including city planning, real estate development, transportation, housing, community development, urban governance, and city management. The Major Program in City Studies is multidisciplinary: it is designed to give students the opportunity to see how they might apply ideas about cities from the social sciences and kindred disciplines in their field of professional interest. The Program also offers preparation for students interested in pursuing graduate education in a field of study related to cities.

Guidelines for 1st year course selection

Students intending to complete a program in City Studies should take at least 1.0 full credit from the courses listed in Requirement 1 of the Major Program in City Studies within their first 4.0 credits.

City Studies Programs

SPECIALIST PROGRAM IN CITY STUDIES (ARTS)

The Specialist program in City Studies (BA) is intended for high achieving students, and will provide them with the skills and knowledge they will need to pursue specialized training at the graduate level in fields like public policy and municipal governance, urban planning, community development, as well as other city-focused fields of studies. Students in the Specialist program will also have the opportunity to develop the in-depth theoretical and conceptual knowledge in applied urban studies, quantitative and qualitative research and GIS skills, practical skills such as project management, facilitation and community consultation, and communication skills needed to succeed in a wide variety of urban professions. Students are encouraged to discuss the selection and sequencing of courses with the Program Advisor or Associate Chair (City Studies).

Admission Requirements:

Enrolment in the Specialist is limited. Students may apply to enter the program after they have completed at least 4.0 credits, including the courses listed under Requirement 1 of the program.

Admission will be determined on the basis of a student’s overall Grade Point Average (GPA) and grades in the courses in Requirement 1 of the program. For students applying with more 8-10 credits, admission will be on the basis of overall GPA and grades in all City Studies (CIT) courses taken. Decisions regarding program admissions will be made only twice a year, in May and August, by the City Studies Supervisor of Studies, and will be based on student requests submitted to the Registrar through ROSI.

Program Requirements:

This program requires the completion of 12.0 credits as follows:

1. Introduction to Social Science Thought (1.0 credit from among the following):
   - ANTA01H3 Introduction to Anthropology: Becoming Human
   - ANTA02H3 Introduction to Anthropology: Culture, Society and Language
   - GGRA02H3 The Geography of Global Processes
   - GGRA03H3 Cities and Environments
   - [MGEA01H3/(ECMA01H3) Introduction to Microeconomics or MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach]
   - [MGEA05H3/(ECMA05H3) Introduction to Macroeconomics or MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]
   - POLA01H3 Critical Issues in Politics I
   - POLA02H3 Critical Issues in Politics II
   - SOCA01H3 Introduction to Sociology I
   - SOCA02H3 Introduction to Sociology II
2. Core courses (2.0 credits as follows):
CITB02H3 Foundations of City Studies
and 1.5 credits from among the following:
CITB01H3 Canadian Cities and Planning
CITB03H3 Social Planning and Community Development
CITB04H3 City Politics
CITB08H3 Economy of Cities

3. City Studies Fundamentals (3.5 credits from among the following):
CITC01H3 Urban Communities and Neighbourhoods Case Study
CITC02H3 Learning in Community Service
CITC03H3 Real Estate and the City
CITC04H3 Municipal and Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC08H3 Cities and Community Development
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC14H3 Environmental Planning
CITC15H3 Taxing and Spending; Public Finance in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC17H3 Civic Engagement in Urban Politics
CITC18H3 Transportation Policy Analysis

4. Research Methods (2.0 credits):
STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
[GGRB30H3 Fundamentals of GIS I or GGRB03H3 Writing Geography: From Good to Great]
[GGRC32H3 Essential Spatial Analysis or GGRC31H3 Qualitative Geographical Methods: Place and Ethnography]

5. City Studies Applications (1.5 credits from among the following)*:
GGRB02H3 The Logic of Geographic Thought
GGRB05H3 Urban Geography
GGRB13H3 Social Geography
POLB50Y3 Canadian Government and Politics
SOCB44H3 Sociology of Cities and Urban Life
GGRC02H3 Population Geography
GGRC10H3 Urbanization and Development
GGRC11H3 Current Topics in Urban Geography
GGRC12H3 Transportation Geography
GGRC13H3 Urban Political Geography
GGRC27H3 Location and Spatial Development
GGRC33H3 The Toronto Region
GGRC40H3 Megacities and Global Urbanization
GGRC48H3 Geographies of Urban Poverty
POLC53H3 Canadian Environmental Policy
PPGC66H3/(POLC66H3) Public Policy Making
PPGC67H3/(POLC67H3) Public Policy in Canada

*Note: these courses may have prerequisites that are not included in this program

6. City Studies Workshop (1.0 credit):
CITD05H3 City Studies Workshop I
CITD06H3 City Studies Workshop II

7. Advanced Applications (1.0 credit):
CITD01H3 City Issues and Strategies
CITD10H3 Seminar in Selected Issues in City Studies
CITD30H3 Supervised Research Project
GGRD14H3 Social Justice and the City
MAJOR PROGRAM IN CITY STUDIES (ARTS)

Guidelines for Major Program Completion
The City Studies curriculum has three areas of concentration: (1) City-Building, (2) Community Development and (3) City Governance.

Major students are welcome to take courses in more than one area of concentration and are encouraged to take at least three of the City Studies core courses, CITB02H3 Foundations of City Studies (required for all Major students in City Studies), CITB01H3 Canadian Cities and Planning, CITB03H3 Social Planning and Community Development, CITB04H3 City Politics, or CITB08H3 Economy of Cities. These core courses cover foundational concepts of the program and are considered essential preparation for upper level courses:

<table>
<thead>
<tr>
<th>City Building</th>
<th>Community Development</th>
<th>City Governance</th>
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</thead>
<tbody>
<tr>
<td>CITC03H3 Real Estate and the City</td>
<td>CITC01H3 Urban Communities and Neighbourhoods Case Study</td>
<td>CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking</td>
</tr>
<tr>
<td>CITC04H3 Municipal and Planning Law in Ontario</td>
<td>CITC02H3 Learning in Community Service</td>
<td>CITC15H3 Taxing and Spending: Public Finance in Canadian Cities</td>
</tr>
<tr>
<td>CITC14H3 Environmental Planning</td>
<td>CITC07H3 Urban Social Policy</td>
<td>CITC16H3 Planning and Governing the Metropolis</td>
</tr>
<tr>
<td>CITC18H3 Transportation Policy Analysis</td>
<td>CITC08H3 Cities and Community Development</td>
<td>CITC17H3 Civic Engagement in Urban Politics</td>
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</table>

Note: It is Department policy that students without the prerequisite will be removed from the course. Students should carefully check the prerequisites required for particular B- and C-level courses.

Note: That some upper-level courses (e.g. SOC and ECM) are part of limited enrolment programs, with first preference in these courses going to students enrolled in those programs.

Program Requirements
This program requires a total of 7.0 full credits.

1. Introduction to Social Science Thought (1.0 full credit from among the following):
   ANTA01H3 Introduction to Anthropology: Becoming Human
   ANTA02H3 Introduction to Anthropology: Culture, Society and Language
   POLA01H3 Critical Issues in Politics I
   POLA02H3 Critical Issues in Politics II
   SOCA01H3 Introduction to Sociology I
   SOCA02H3 Introduction to Sociology II
   GGRA02H3 The Geography of Global Processes
   GGRA03H3 Cities and Environments
   [MGEA01H3/(ECMA01H3) Introduction to Microeconomics or MGEA02H3/(ECMA02H3) Introduction to Microeconomics: A Mathematical Approach]
   [MGEA05H3/(ECMA05H3) Introduction to Macroeconomics or MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach]

2. Core courses (1.5 full credits including)
   CITB02H3 Foundations of City Studies
   and
   1.0 credits from among the following:
   CITB01H3 Canadian Cities and Planning
   CITB03H3 Social Planning and Community Development
   CITB04H3 City Politics
   CITB08H3 Economy of Cities

3. Fundamentals of City Studies (at least 1.5 full credits from among the following):
   [EESA05H3 Environmental Hazards or EESA06H3 Introduction to Planet Earth]
   GGBR02H3 The Logic of Geographic Thought
   GGBR05H3 Urban Geography
   GGBR13H3 Social Geography
   GGBR28H3 Geographies of Disease
   POLB50Y3 Canadian Government and Politics
   SOCB44H3 Sociology of Cities and Urban Life
   WSTB12H3 Women, Violence and Resistance

4. Methods (1.0 full credit):
   STAB23H3 Introduction to Statistics for the Social Sciences
   0.5 credit from the following:
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
5. **Applications (at least 2.0 full credits from among the following):**
   - CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough
   - CITC02H3 Learning in Community Service
   - CITC03H3 Real Estate and the City
   - CITC04H3 Municipal and Planning Law in Ontario
   - CITC07H3 Urban Social Policy
   - CITC08H3 Cities and Community Development
   - CITC10H3 Selected Issues in City Studies
   - CITC12H3 City Structures and City Choices: Local Government, Management, and Policy Making
   - CITC14H3 Environmental Planning
   - CITC15H3 Taxing and Spending: Public Finance in Canadian Cities
   - CITC16H3 Planning and Governing the Metropolis
   - CITC17H3 Civic Engagement in Municipal Politics
   - CITC18H3 Urban Transportation Policy Analysis
   - CITD01H3 City Issues and Strategies
   - CITD05H3 City Studies Workshop I
   - CITD06H3 City Studies Workshop II
   - CITD10H3 Seminar in Selected Issues in City Studies
   - CITD30H3 Supervised Research Project
   - ANTC18H3 Urban Anthropology
   - EESD20H3 Urban Environmental Problems of the Greater Toronto Area
   - GGRC02H3 Population Geography
   - GGRC10H3 Urbanization and Development
   - GGRC11H3 Current Topics in Urban Geography
   - GGRC12H3 Transportation Geography
   - GGRC13H3 Urban Political Geography
   - GGRC27H3 Location and Spatial Development
   - GGRC33H3 The Toronto Region
   - GGRC40H3 Megacities and Global Urbanization
   - GGRC48H3 Geographies of Urban Poverty
   - GGRD09H3 Feminist Geographies
   - GGRD14H3 Social Justice and the City
   - HISC58H3 Delhi and London: Imperial Cities, Mobile People
   - POLC53H3 Canadian Environmental Policy
   - PPGC66H3/PPGC66H3 Public Policy Making
   - PPGC67H3/PPGC67H3 Public Policy in Canada
   - SOCC26H3 Sociology of Urban Cultural Policies
   - SOCC27H3 Sociology of Suburbs and Suburbanization
   - WSTC14H3 Women, Community, and Policy Change
   - WSTC20H3 Women and Environments

**MAJOR (CO-OPERATIVE) PROGRAM IN CITY STUDIES (ARTS)**

*Co-op Contact: askcoop@utsc.utoronto.ca*

The Co-operative Program in City Studies is a work-study program that combines academic studies in various disciplines with work terms in the public, private, or non-profit sector. Students complete two works terms of four months each along with their academic programs. The program gives students the opportunity to develop a set of academic and professional skills to secure employment in the public sector, private enterprise, and non-profit organizations, or to continue to graduate training in an academic field related to cities.

For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

**Program Admission**

*Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to UTSC from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.*

*Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including 1.0 from the courses listed in Requirement 1 of the Major Program in City Studies plus a cumulative GPA of at least 2.5.*

**Program Requirements**
The Major (Co-operative) Program in City Studies combines academic studies in various disciplines with work terms in private enterprise, the public sector, or non-governmental organizations. It includes all of the requirements of the Major Program listed above. In addition, students must successfully complete the non-credit Arts & Science Co-op Work Term Preparation activities and two work terms.

**Work Terms**

Students must satisfactorily complete two work terms, each of four-months duration. To be eligible for the first work term, students must have completed at least 10 full credits, including 5 full credits as a U of T Scarborough student. These must include at least one full credit drawn from each of areas 1 (Introduction to Social Science Thought), 2 (Core Courses), 3 (Fundamentals of City Studies), and 4 (Methods). Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Students are advised that being available for work terms during fall and winter may increase the variety of work available, and this in turn requires students to take courses during at least one summer session.

**MINOR PROGRAM IN CITY STUDIES (ARTS)**

Students taking the Minor Program in City Studies should consider selecting most of their Applications program requirements from one area of focus: City Building, Community Development, or City Governance.

The program requires the completion of 4.0 credits as follows:

1. **Foundations (0.5 credit):**
   - CITB02H3 Foundations of City Studies

2. **Core Courses (1.5 credits from the following):**
   - GGRB05H3 Urban Geography
   - CITB01H3 Canadian Cities and Planning
   - CITB03H3 Social Planning and Community Development
   - CITB04H3 City Politics
   - CITB08H3 Economy of Cities

3. **Applications (2.0 credits at the C- or D-level, from the following):**
   - CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough
   - CITC03H3 Real Estate and the City
   - CITC04H3 Municipal and Planning Law in Ontario
   - CITC07H3 Urban Social Policy
   - CITC08H3 Cities and Community Development
   - CITC10H3 Selected Issues in City Studies
   - CITC12H3 City Structures and City Choices: Local Government, Management, and Policy Making
   - CITC14H3 Environmental Planning
   - CITC15H3 Taxing and Spending: Public Finance in Canadian Cities
   - CITC16H3 Planning and Governing the Metropolis
   - CITC17H3 Civic Engagement in Urban Politics
   - CITC18H3 Urban Transportation Policy Analysis
   - CITD01H3 City Issues and Strategies
   - CITD10H3 Seminar in Selected Issues in City Studies
   - GGRC10H3 Urbanization and Development
   - GGRC11H3 Current Topics in Urban Geography
   - GGRC12H3 Transportation Geography
   - GGRC13H3 Urban Political Geography
   - GGRC27H3 Location and Spatial Development
   - GGRC33H3 The Toronto Region
   - GGRC40H3 Megacities and Global Urbanization
   - GGRC48H3 Geographies of Urban Poverty
   - GGRC50H3 Geographies of Education
   - GGRD14H3 Social Justice and the City
MINOR PROGRAM IN URBAN PUBLIC POLICY AND GOVERNANCE (ARTS)

See the Public Policy section of this Calendar for program description.

City Studies Courses

CITB01H3 Canadian Cities and Planning
After reviewing the history of urban and regional planning in Canada, this course considers alternative ideologies, models of public choice, the role of the planner, the instruments of planning, tools for the analysis of planning, and planning in the context of the space economy.
Prerequisite: Any 4.0 credits.
Exclusion: (GGRB06H3)
Breadth Requirement: Social & Behavioural Sciences

CITB02H3 Foundations of City Studies
A review of the major characteristics and interpretations of cities, urban processes and urban change as a foundation for the Program in City Studies. Ideas from disciplines including Anthropology, Economics, Geography, Planning, Political Science and Sociology, are examined as ways of understanding cities.
Prerequisite: Any 4.0 credits.
Breadth Requirement: Social & Behavioural Sciences

CITB03H3 Social Planning and Community Development
This course provides an overview of the history, theory, and politics of community development and social planning as an important dimension of contemporary urban development and change.
Prerequisite: Any 4.0 credits.
Breadth Requirement: Social & Behavioural Sciences

CITB04H3 City Politics
This course is the foundations course for the city governance concentration in the City Studies program, and provides an introduction to the study of urban politics with particular emphasis on different theoretical and methodological approaches to understanding urban decision-making, power, and conflict.
Prerequisite: Any 4.0 credits
Breadth Requirement: Social & Behavioural Sciences

CITB08H3 Economy of Cities
An introduction to economic analysis of cities, topics include: theories of urban economic growth; the economics of land use, urban structure, and zoning; the economics of environments, transportation, and sustainability; public finance, cost-benefit analysis, the provision of municipal goods and services, and the new institutional economics.
Prerequisite: Any 4.0 credits.
Breadth Requirement: Social & Behavioural Sciences

CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough
This course engages students in a case study of some of the issues facing urban communities and neighbourhoods today. Students will develop both community-based and academic research skills by conducting research projects in co-operation with local residents and businesses, non-profit organizations, and government actors and agencies.
Prerequisite: [At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology]
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority enrolment is given students registered in the City Studies programs, students from other programs may request admission through the Program Advisor at cit-advisor@utsc.utoronto.ca

CITC02H3 Learning in Community Service
This will be a service learning course based in Scarborough communities in which students learn about community issues first-hand by volunteering for community based organizations. Student evaluation will be based on completion of volunteer hours and grading of student journals that will: 1. Describe the service work, and 2. Reflect on the service work and relate it to lectures and required readings.
Prerequisite: At least 1.5 credits at the B-level in CIT courses
Recommended Preparation: CITC01H3
Enrolment Limits: 30
NOTE: Priority enrolment is given students registered in the City Studies programs, students from other programs may request admission through the Program Advisor at cit-advisor@utsc.utoronto.ca

CITC03H3 Real Estate and the City
Operation of property markets; cities as markets in land and structures; stocks of property and flows of accommodation service; location of industry, offices and retailing within the city; rental and owner-occupied housing; depreciation and maintenance; cyclical behaviour in metropolitan property markets; impacts of local government; property taxation.
Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management
Exclusion: (GGBR10H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC04H3 Municipal and Planning Law in Ontario
Constitutional authority, municipal corporations, official plans, zoning bylaws, land subdivision and consents, development control, deed restrictions and common interest developments, Ontario Municipal Board.
Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITD05H3 Cities Studies Workshop I
City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.
Prerequisite: 8.0 credits including CITB02H3 and 1.0 credit at the B-level in CIT courses
Exclusion: (CITC05H3)
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
NOTE: This course is designed for students in Years 3 and 4 of their programs. Priority will be given to students enrolled in the Specialist and Major/Major Co-op programs in City Studies.

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CITD06H3  City Studies Workshop II

City Studies Workshop I provides training in a range of career-oriented research, consulting, and professional skills. Through a series of 4-week modules, students will develop professional practice oriented skills, such as conducting public consultations, participating in design charrettes, making public presentations, writing policy briefing notes, conducting stakeholder interviews, working with community partner organizations, organizing and running public debates, and participant observation of council meetings and policy processes at Toronto City Hall.

Prerequisite: 8.0 credits including [CITB02H3 and 1.0 credit at the B-level in CIT courses]
Exclusion: (CITC06H3)
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
NOTE: This course is designed for students in Years 3 and 4 of their program of study. Priority will be given to students enrolled in the Specialist and Major/Major Co-op programs in City Studies.

CITC07H3  Urban Social Policy

In recent years social policy has been rediscovered as a key component of urban governance. This course examines the last half-century of evolving approaches to social policy and urban inequality, with particular emphasis on the Canadian urban experience. Major issues examined are poverty, social exclusion, labour market changes, housing, immigration and settlement.

Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Exclusion: CITC10H3 if taken in the 2011 Winter session
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC08H3  Cities and Community Development

An examination of community development as the practice of citizens and community organizations to empower individuals and groups to improve the social and economic wellbeing of their communities and neighbourhoods. The course will consider different approaches to community development and critically discuss their potential for positive urban social change.

Prerequisite: [At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology]
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority enrolment is given students registered in the City Studies programs, students from other programs may request admission through the Program Advisor at cit-advisor@utsc.utoronto.ca

CITC10H3  Selected Issues in City Studies

Examination of one or more current issues in cities. The specific issues will vary depending on the instructor.
Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Breadth Requirement: Social & Behavioural Sciences

CITC12H3  City Structures and City Choices: Local Government, Management, and Policymaking

This course examines the structure of local government, how local Government is managed, how policy decisions are made. Viewing Canadian cities in comparative perspective, topics include the organization and authority of the mayor, council, civic bureaucracy, and special-purpose bodies, and their roles in the making and implementation of public policies; ethical and conflict-of-interest dilemmas; collective bargaining; and provincial oversight of municipal affairs.

Prerequisite: At least 1.0 credit at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management or Political Science or Sociology

Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC14H3  Environmental Planning

This course introduces students to questions of urban ecology and environmental planning, and examines how sustainability and environmental concerns can be integrated into urban planning processes and practices.

Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Environmental Studies or Political Science or Sociology
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC15H3  Taxing and Spending: Public Finance in Canadian Cities

The course examines Canadian local public finance in comparative perspective and discusses the implications of municipal finance for urban public policy, planning, and the provision of municipal services. Topics include local government revenue sources and expenditures, the politics of municipal budgeting and intergovernmental fiscal relations, and how public finance influences urban form.

Prerequisite: At least 1.0 credit at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management or Political Science or Sociology
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC16H3  Planning and Governing the Metropolis

Most of the world's population now lives in large urban regions. How such metropolitan areas should be planned and governed has been debated for over a century. Using examples, this course surveys and critically evaluates leading historical and contemporary perspectives on metropolitan planning and governance, and highlights the institutional and political challenges to regional coordination and policy development.

Prerequisite: At least 1.0 credit at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC17H3  Civic Engagement in Urban Politics

This course examines the engagement of citizen groups, neighbourhood associations, urban social movements, and other non-state actors in urban politics, planning, and governance. The course will discuss the contested and selective insertion of certain groups into city-regional decision-making processes and structures.

Prerequisite: At least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Political Science or Sociology
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

CITC18H3  Urban Transportation Policy Analysis

Demand forecasting; methodology of policy analysis; impacts on land values, urban form and commuting; congestion; transit management; regulation and deregulation; environmental impacts and safety.

Prerequisite: [STAB22H3 or equivalent] and [at least 1.5 credits at the B-level in ONE of the following: City Studies or Human Geography or Economics for Management Studies or Management or Political Science]
Exclusion: GGR324H, (GGRC18H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

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CITD01H3  City Issues and Strategies
This course is designed as a culminating City Studies course in which participants are able to showcase the application of their research skills, and share their professional and disciplinary interests in a common case study. Lectures and guests will introduce conceptual frameworks, core questions and conflicts. Students will be expected to actively participate in discussions and debates, and produce shared research resources. Each student will prepare a substantial research paper as a final project. Prerequisite: 15.0 credits and completion of the following requirements from either the Major or Major Co-operative programs in City Studies: (2) Core Courses and (4) Methods
Enrolment Limits: 25

CITD10H3  Seminar in Selected Issues in City Studies
Designed primarily for final-year City Studies Majors, this research seminar is devoted to the analysis and discussion of current debates and affairs in City Studies using a variety of theoretical and methodological approaches. Specific content will vary from year to year. Seminar format with active student participation. Prerequisite: 15.0 credits, including completion of the following requirements of the Major/Major Co-op programs in City Studies: (1) Introduction to Social Science Thought, (2) Core Courses, and (4) Methods
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Major/Major Co-op programs in City Studies. Additional students will be admitted as space permits.

CITD30H3  Supervised Research Project
An independent studies course open only to students in the Major and Major Co-op programs in City Studies. An independent studies project will be carried out under the supervision of an individual faculty member. Prerequisite: 15.0 credits, including completion of the following requirements of the Major/Major Co-op programs in City Studies: 1) Introduction to Social Science Thought, 2) Core Courses, 4) Methods; and a cumulative GPA of at least 2.5
Breadth Requirement: Social & Behavioural Sciences
Classical Studies

Faculty List

- K. Blouin, M.A., Ph.D. (Laval and Nice), Associate Professor
- M.E. Irwin, M.A., Ph.D. (Toronto), Associate Professor Emerita
- J. Warden, M.A. (Cantab.), Professor Emeritus

Undergraduate Advisor: 416-287-7184 Email: classics-undergrad-advisor@utsc.utoronto.ca

Classical studies is a pluridisciplinary field dedicated to the study of the ancient Greek and Roman worlds. It involves disciplines such as history, literature, religion, languages and linguistics, art history, archaeology, and philosophy and pertains to the study of wide areas of Europe, North Africa and Asia over several millennia (ca. 2000 B.C.-700 A.D.).

The classical world was in essence Greek and Roman. Yet it was also a complex, heterogeneous, permeable, mixed and constantly evolving world in which the Greeks and the Romans have always been intertwined with other peoples and cultures. Classical studies at UTSC offer students both a thorough examination of the main features of the Greek and Roman civilizations and a substantial introduction to the other peoples and cultures which were part of or interacted with it. In most courses the ancient written sources are studied in translation.

Guidelines for 1st year course selection

Students who intend to complete the Minor program in Classics should include CLAA04H3 and CLAA06H3 in their 1st year course selection.

For updates and detailed information regarding Classical Studies please visit the Historical and Cultural website at: www.utsc.utoronto.ca/~hcs/

Classical Studies Programs

MINOR PROGRAM IN CLASSICAL STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: classics-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete four full credits, as follows:

1. Introduction
   CLAA04H3 The Ancient Mediterranean World

2. History and Culture
   CLAB05H3 History and Culture of the Greek World
   CLAB06H3 History and Culture of the Roman World

3. Mythology and Religion
   CLAA06H3 Ancient Mythology II: Greece and Rome

4. Literature (0.5 credit from the following courses)
   CLAC11H3 Classical Literature I: Poetry
   CLAC12H3 Classical Literature II: Prose

5. Electives (1.5 full credits from the following courses, including at least 1.0 full credit at the C or D-level; before choosing their electives, students need to take at least 1.0 full credit at the A-level, 1.0 full credit at the B-level, and 0.5 credit at the C-level):
   Classical Studies
   CLAA05H3 Ancient Mythology I: Mesopotamia and Egypt
   (CLAB10H3) Greek and Latin for Scientists
   CLAB20H3 The Classical World in Film
   CLAC01H3 Selected Topics in Classical Literature
   CLAC02H3 Selected Topics in Classical Civilization
   CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt
   CLAC11H3 Classical Literature I: Poetry if not taken as a required course
   CLAC12H3 Classical Literature II: Prose if not taken as a required course
   CLAC22H3 Religions of the Ancient Mediterranean
   CLAC24H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds
   CLAD05H3 Water Management in the Ancient Mediterranean World
Art History
(VPHB41H3) The Human Figure in Greek Art (8th-4th cent. B.C.)
(VPHB852H3) Ancient Art and Architecture (ca 900 B.C.-300 A.D.)
(VPHB76H3) Religion in the Arts: The Judeo-Christian Traditions
(VPHC46H3) Topics in Art of the Ancient World
VPHC53H3 The Silk Routes

English
ENGB30H3 Classical Myth and Literature
ENGC16H3 The Bible and Literature I
ENGC17H3 The Bible and Literature II
ENGC26H3 Drama: Tragedy
ENGC27H3 Drama: Comedy

Languages
(LGGA50H3) Introductory Latin I
(LGGA51H3) Introductory Latin II
(LGGA54H3) Introductory Sanskrit I
(LGGA55H3) Introductory Sanskrit II
(LGGB54H3) Intermediate Sanskrit I
(LGGB55H3) Intermediate Sanskrit II

Philosophy
PHLB16H3 Political Philosophy: Ancient Greece and the Middle Ages
PHLB31H3 Introduction to Ancient Philosophy
PHLC32H3 Ancient Philosophy

Religion
(RLGB01H3) The "Holy Book" in Judaism, Christianity and Islam
(RLGC01H3) The Five Books of Moses
(RLGC02H3) The Gospels
(RLGC03H3) Paul and the Invention of Christianity
(RLGC04H3) Hindu Epic
RLGC05H3 The Qu'ran in Interpretive and Historical Context

Anthropology
(ANTB04H3) Artifacts and Prehistory
(ANTB12H3) Introduction to World Prehistory: The Rise of Civilization

Note: Students who were enrolled at UTSC prior to the 2009 Summer Session may substitute one of (CLAA02H3) or (CLAA03H3) for CLAA06H3 in Requirement 3. Students who have both (CLAA02H3) & (CLAA03H3) may substitute one of the courses for CLAA04H3 in Requirement 1.

Classical Studies Courses

CLAA04H3 The Ancient Mediterranean World
An introduction to the main features of the ancient civilizations of the Mediterranean world from the development of agriculture to the spread of Islam. Long term socio-economic and cultural continuities and ruptures will be underlined, while a certain attention will be dedicated to evidences and disciplinary issues.
Same as HISB07H3
Exclusion: HISB07H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAA05H3 Ancient Mythology I: Mesopotamia and Egypt
A study of Mesopotamian and Egyptian mythologies. Special attention will be dedicated to the sources through which these representational patterns are documented and to their influence on Mediterranean civilizations and arts.
Exclusion: CLAA05H3 may not be taken after or concurrently with NMC380Y
Breadth Requirement: History, Philosophy & Cultural Studies

CLAA06H3 Ancient Mythology II: Greece and Rome
A study of Greek and Roman mythologies. Special attention will be dedicated to the sources through which these representational patterns are documented and to their influence on Mediterranean civilizations and arts.
Exclusion: CLA204H, (CLAA02H3), (CLAA03H3)
Recommended Preparation: CLAA05H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAB05H3 History and Culture of the Greek World
A survey of the history and culture of the Greek world from the Minoan period to the Roman conquest of Egypt (ca 1500-30 BC). Special attention will be dedicated to the nature, variety and limits of the available evidences, to socio-cultural interactions as well as to historical processes of continuities and ruptures.
Same as HISB10H3
Exclusion: CLA230H, HISB10H3
Breadth Requirement: History, Philosophy & Cultural Studies

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CLAB06H3 History and Culture of the Roman World
A survey of the history and culture of the ancient Roman world, from the Etruscan period to the Justinian dynasty (ca 800 BC-600 AD). Special attention will be dedicated to the nature, variety and limits of the available evidences, to socio-cultural interactions as well as to historical processes of continuities and ruptures.
Same as HISB11H3
Exclusion: CLA231H3, HISB11H3
Recommended Preparation: CLAB05H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAB20H3 The Classical World in Film
The representation of the classical world and historical events in film. How the Greek and Roman world is reconstructed by filmmakers, their use of spectacle, costume and furnishings, and the influence of archaeology on their portrayals. Films will be studied critically for historical accuracy and faithfulness to classical sources.
Same as HISB12H3
Exclusion: HISB12H3, CLA388H
Recommended Preparation: CLAA05H3 or CLAA06H3 or (CLAA02H3) or (CLAA03H3)
Breadth Requirement: History, Philosophy & Cultural Studies

CLAC01H3 Selected Topics in Classical Literature
A detailed study of an author or a genre in Classical Literature in Translation.
Topics will vary from session to session and will alternate between Greek and Roman Epic, Greek and Roman Tragedy and Greek and Roman Comedy.
Prerequisite: One full credit in Classics or in English or another literature
Exclusion: CLA300H
Breadth Requirement: Arts, Literature & Language

CLAC02H3 Selected Topics in Classical Civilization
A detailed study of a theme in Classical Civilization.
Topics will vary from session to session and may be drawn from such areas as the archaeological history of the Roman world, Greek and Roman religion, ancient education or Roman law.
Prerequisite: One full credit in Classics or History
Breadth Requirement: History, Philosophy & Cultural Studies

CLAC05H3 Environment, Society and Economy in Ptolemaic and Roman Egypt
This course provides a review of the environmental, social and economic features of Egypt from 332 BC to 642 AD.
Same as (IEEC52H3), HISCI0H3
Prerequisite: 2.0 credits in CLA or HIS courses, including 2 of the following [CLAAD4H3/HISA07H3, CLAB05H3/HISB10H3, CLAB06H3/HISB11H3]
Exclusion: (IEEC52H3), HISCI10H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAC11H3 Classical Literature I: Poetry
An examination of the main genres, authors and works of ancient Greek and Latin poetry, with particular emphasis on epic, drama and lyrics. Attention will be dedicated to the study of how these works reflect the socio-cultural features of Classical Antiquity and influenced later literatures. Texts will be studied in translation.
Prerequisite: One full credit in Classics or English
Recommended Preparation: CLAA06H3
Breadth Requirement: Arts, Literature & Language

CLAC12H3 Classical Literature II: Prose
An examination of the main genres, authors and works of ancient Greek and Latin prose. History, rhetoric, biography, letters and the novel will be studied. Attention will be dedicated to the study of how these works reflect the socio-cultural features of Classical Antiquity and influenced later literatures. Texts will be studied in translation.
Prerequisite: One full credit in Classics or English
Recommended Preparation: CLAA06H3 & CLAC11H3
Breadth Requirement: Arts, Literature & Language

CLAC22H3 Religions of the Ancient Mediterranean
A comparative study of the Mesopotamian, Egyptian, Phoenician and Punic, Celtic, Palmyrene, Persian, Greco-Roman and Judeo-Christian religious beliefs and practices. Special attention will be dedicated to how they document the societies and cultures in which they flourished.
Prerequisite: One full credit in Classics or Religion
Exclusion: CLA366H, NMC380Y
Recommended Preparation: CLAA05H3 & CLAA06H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAC24H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds
A critical examination of multiculturalism and cultural identities in the Greek and Roman worlds. Special attention will be dedicated to the evidences through which these issues are documented and to their fundamental influence on the formation and evolution of ancient Mediterranean societies and cultures.
Same as HISCI11H3
Prerequisite: One full credit in Classics or History
Exclusion: HISCI11H3
Recommended Preparation: CLAB05H3 & CLAB06H3
Breadth Requirement: History, Philosophy & Cultural Studies

CLAD05H3 Water Management in the Ancient Mediterranean World
This seminar type course addresses issues related to the relationships between ancient Mediterranean societies and their hydric environments in the Mediterranean from 5000 BC to 600 AD.
Same as HISD10H3
Prerequisite: Any 11 full credits including 2 full credits in Classical Studies or History.
Exclusion: HISD10H3
Recommended Preparation: CLAB05H3 & CLAB06H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
Cognitive Science

Cognitive Science Courses

COGC91H3 Supervised Study in Cognitive Science
Supervised reading or research project.
These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses and in close consultation with the supervisor. They are not intended as a substitute for scheduled advanced courses. They are intensive research projects intended to provide laboratory/field experience in data collection and analysis. Projects must be completed over 2 consecutive terms. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, who is appointed at UTSC, will be required.

Prerequisite: 3.0 credits at the B- or C-level in COG and/or LIN and/or PSY and permission of the supervisor. Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.
Enrolment Limits: Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

COGC92H3 Supervised Study in Cognitive Science
Supervised reading or research project.
These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses and in close consultation with the supervisor. They are not intended as a substitute for scheduled advanced courses. They are intensive research projects intended to provide laboratory/field experience in data collection and analysis. Projects must be completed over 2 consecutive terms. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, who is appointed at UTSC, will be required.

Prerequisite: 3.0 credits at the B- or C-level in COG and/or LIN and/or PSY and permission of the supervisor. Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.
Enrolment Limits: Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

COGD10H3 Supervised Study in Cognitive Science
Supervised reading or research project.
These courses provide an opportunity to pursue advanced study in a specialized area following the appropriate scheduled courses and in close consultation with the supervisor. They are not intended as a substitute for scheduled advanced courses. They are intensive research projects intended to provide laboratory/field experience in data collection and analysis. Projects must be completed over 2 consecutive terms. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, who is appointed at UTSC, will be required.

Prerequisite: 3.0 credits at the B- or C-level in COG and/or LIN and/or PSY and permission of the supervisor. Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.
Enrolment Limits: Students are advised that they must obtain consent from the supervising instructor before registering for these courses.

The Specialist and Major programs in Cognitive Science have been closed. Students who are completing these programs can direct their questions to the Supervisor of Studies: Steve Joordens, Email: joordens@utsc.utoronto.ca
**Computer Science**

**Faculty List**

- A. Bretscher, B.Sc., M.Sc. (Queen's), Ph.D. (Toronto), *Associate Professor, Teaching Stream*
- N. Cheng, B.Sc. (Toronto), *Associate Professor, Teaching Stream*
- W.H. Enright, B.Sc. (U.B.C.), M.Sc., Ph.D. (Toronto), *Professor Emeritus*
- J. Estrada, B.Eng. (ITESM, Mex.), M.Sc., Ph.D. (Toronto), *Associate Professor, Teaching Stream*
- D.J. Fleet, B.Sc. (Queen's), M.Sc., Ph.D. (Toronto), *Professor*
- V. Hadzilacos, B.S.E. (Princeton), Ph.D. (Harvard), *Professor*
- B. Harrington, Hon. B.Sc. (Toronto), M.Sc., D.Phil. (Oxford), *Assistant Professor, Teaching Stream*
- N. Koudas, B.Sc. (Patras), M.Sc. (Maryland), Ph.D. (Toronto), *Professor*
- M. Molloy, B.Math, M.Math (Waterloo), Ph.D. (Carnegie Mellon), *Professor*
- R. Pancer, B.Sc., M.Sc., Ph.D. (Toronto), *Associate Professor, Teaching Stream*
- A. Rosselet, B.Sc. (NCSU), M.Sc., Ph.D. (Toronto), *Associate Professor*
- A. Tafliovich, Hon. B.Sc., M.Sc., Ph.D. (Toronto), *Assistant Professor, Teaching Stream*

*Associate Chair: B. Schroeder  Email: bianca@cs.toronto.edu (416-287-7235)*

Computer science is the study of the use of computers to process information. The form of this information may vary widely, from the business person's records or the scientist's experimental results to the linguist's texts. One of the fundamental concepts in computer science is the algorithm - a list of instructions that specify the steps required to solve a problem. Computer science is concerned with producing correct, efficient, and maintainable algorithms for a wide variety of applications. Closely related is the development of tools to foster these goals: programming languages for expressing algorithms; operating systems to manage the resources of a computer; and various mathematical and statistical techniques to study the correctness and efficiency of algorithms.

Theoretical computer science is concerned with the inherent difficulty of problems that can make them intractable by computers. Numerical analysis, data management systems, computer graphics, and artificial intelligence are concerned with the applications of computers to specific problem areas.

**Limited Enrolment**

Because of pressures of demand for places, it has been necessary to place enrolment limits on most CSC courses and on admission to the Major and Specialist Programs. Information on how to apply for admission to a Program is given below.

**Note on Admission to CSC Courses**

CSC courses are open to all students who meet the pre-requisites. Non-CSC program students who wish to take B-, C-, or D- level courses must meet additional Cumulative GPA (CGPA) requirements:

- A student who is not in a CSC program and does not have a CGPA of at least 2.5 may not take any B- level CSC course.
- A student who is not in a CSC program and does not have a CGPA of at least 3.0 may not take any C- or D-level CSC course.
- When a B-, C-, or D-level CSC course approaches its capacity, CSC program students will be given preference for further enrollment over non-CSC program students.
- Students admitted to the Major or Specialist Program in Computer Science at any point after first year will be subject to retroactive program tuition fees.

**Service Learning and Outreach (Previously known as Science Engagement)**

For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

**Computer Science Programs**

**SPECIALIST PROGRAM IN COMPUTER SCIENCE (SCIENCE)**

*Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca*

**Program Objectives**

This program provides a working knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. It also imparts an appreciation of the discipline's transformative impact on science and society. The program prepares students for further study and for careers in the computing industry. It comprises five streams with different emphases:
The Comprehensive Stream provides a broad and balanced exposure to the discipline. It is the stream best-suited for students planning to pursue graduate study in computer science, but it is also suitable for other career paths.

The Software Engineering Stream places a greater emphasis on the engineering side of the discipline, including computer systems and core applications.

The Information Systems Stream has a similar focus as the Software Engineering Stream, but it provides additional exposure to certain aspects of business management. It is of special interest to students wishing to pursue careers in technical management but who have a deep interest in the technology.

The Health Informatics Stream provides a broad perspective of the discipline and exposure to additional subjects, including statistics and social sciences, that are useful for a career as a computer scientist in the health sector.

The Entrepreneurship Stream includes a solid core of computer science and software engineering, while exposing students to the framework and methodologies that underlie the development of innovative technology ideas into viable commercial opportunities. Enrolment into the Entrepreneurship stream will be limited to highly qualified and motivated students, and preference will be given to students enrolled in the Specialist (Co-operative) program.

The structure of the program requirements allows one to easily switch streams until relatively late in the program. Consequently, these streams should not be viewed as rigidly separated channels feeding students to different career paths, but as a flexible structure that provides computer science students guidance in their course selection based on their broad (but possibly fluid) interests.

Program Admission
Enrolment in the Specialist in Computer Science (all streams) is limited.

Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of 2.5 or greater across the core A-level courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, and MATA37H3) are guaranteed admission. Admission to the Entrepreneurship stream also requires the submission of a Supplementary Application Form (SAF) available from the CMS website.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3, CSCB07H3, CSCB09H3, CSCB36H3, CSCB63H3, and [one of MATB24H3 or STAB52H3]. The CGPA will be calculated across these 11 courses, and a CGPA of 2.5 or greater guarantees admission to the Specialist. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program.

Program Requirements
To remain in the program, a student must maintain a CGPA of 2.0 or higher throughout the program. To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses). The program requirements comprise a core of 18 courses (9.0 credits), common to all streams and additional requirements which depend on the stream, for a total of 27 courses (13.5 credits) for the Comprehensive, Software Engineering, and Entrepreneurship streams, 29 courses (14.5 credits) for the Information Systems stream, and 30 courses (15.0 credits) for the Health Informatics stream.

Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.

Core (9.0 credits)

1. Writing Requirement (0.5 credit) (*)

(*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (3.0 credits)
CSCA08H3 Introduction to Computer Science I
CSCA48H3 Introduction to Computer Science II
CSCA67H3 Discrete Mathematics
MATA23H3 Linear Algebra I
MATA31H3 Calculus I for Mathematical Sciences
MATA37H3 Calculus II for Mathematical Sciences

3. B-level courses (3.5 credits)
CSCB07H3 Software Design
CSCB09H3 Software Tools and Systems Programming
CSCB36H3 Introduction to the Theory of Computation
Computer Science

CSCB58H3 Computer Organization
CSCB63H3 Design and Analysis of Data Structures
MATB24H3 Linear Algebra II
STAB52H3 Introduction to Probability

4. C-level courses (1.5 credits)
CSCC43H3 Introduction to Databases
CSCC69H3 Operating Systems
CSCC73H3 Algorithm Design and Analysis

5. D-level courses (0.5 credit)
CSCD03H3 Social Impact of Information Technology

A. Comprehensive Stream
This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (2.5 credits)
MATB41H3 Techniques of the Calculus of Several Variables I
CSCC24H3 Principles of Programming Languages
CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
CSCC63H3 Computability and Computational Complexity
CSCD37H3 Analysis of Numerical Algorithms for Computational Mathematics

7. Electives from courses on computers systems and applications (1.0 credit)
Two of:

CSCC01H3 Introduction to Software Engineering
CSCC09H3 Programming on the Web
CSCC11H3 Introduction to Machine Learning and Data Mining
CSCC85H3 Introduction to Embedded Systems
CSCD01H3 Engineering Large Software Systems
CSCD18H3 Computer Graphics
CSCD27H3 Computer and Network Security
CSCD43H3 Database System Technology
CSCD58H3 Computer Networks
CSCD84H3 Artificial Intelligence
CSC318H Design of Interactive Computational Media
CSC320H Visual Computing
CSC321H Introduction to Neural Networks and Machine Learning
CSC401H Natural Language Computing
CSC469H Operating Systems Design and Implementation
CSC485H Computational Linguistics
CSC488H Compilers and Interpreters

8. Electives from courses related to the theory of computing (0.5 credit)
One of:

MATC09H3 Introduction to Mathematical Logic
MATC16H3 Coding Theory and Cryptography
MATC32H3 Graph Theory and Algorithms for Its Applications
MATC44H3 Introduction to Combinatorics
CSC438H Computability and Logic
CSC448H Formal Languages and Automata
CSC465H Formal Methods in Software Design

9. CSC, MAT, or STA elective (0.5 credit)
One of:

Any C- or D-level CSC, MAT, or STA course, excluding MATC82H3, MATC90H3, and STAD29H3.

B. Software Engineering Stream
This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (3.0 credits)
MATB41H3 Techniques of the Calculus of Several Variables I
CSCC01H3 Introduction to Software Engineering
CSCC24H3 Principles of Programming Languages
CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
CSCC63H3 Computability and Computational Complexity
CSCD01H3 Engineering Large Software Systems

7. Electives from courses on computer systems and applications (1.5 credits)
Three of:
- CSCC09H3 Programming on the Web
- CSCC11H3 Introduction to Machine Learning and Data Mining
- CSCC85H3 Introduction to Embedded Systems
- CSCD18H3 Computer Graphics
- CSCD27H3 Computer and Network Security
- CSCD43H3 Database System Technology
- CSCD58H3 Computer Networks
- CSCD84H3 Artificial Intelligence
- CSC318H Design of Interactive Computational Media
- CSC320H Visual Computing
- CSC321H Introduction to Neural Networks and Machine Learning
- CSC401H Natural Language Computing
- CSC469H Operating Systems Design and Implementation
- CSC485H Computational Linguistics
- CSC488H Compilers and Interpreters

C. Information Systems Stream
This stream requires a total of 29 courses (14.5 credits). In addition to the core requirements 1-5 common to all streams, 11 other distinct courses (5.5 credits) must be chosen satisfying all of the following requirements:

6. Required management courses (1.5 credits)
- MGTA01H3/(MGTA03H3) Introduction to Business
- MGTA02H3/(MGTA04H3) Managing the Business Organization
- MGHB02H3 Managing People and Groups in Organizations

7. Additional required mathematics and computer science courses (3.0 credits)
- MATB41H3 Techniques of the Calculus of Several Variables I
- CSCC01H3 Introduction to Software Engineering
- CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
- CSCC63H3 Computability and Computational Complexity
- CSCD01H3 Engineering Large Software Systems
- CSCD43H3 Database System Technology

8. Electives from courses on computer systems and applications (1.0 credit)
Two of:
- CSCC09H3 Programming on the Web
- CSCC11H3 Introduction to Machine Learning and Data Mining
- CSCC85H3 Introduction to Embedded Systems
- CSCD18H3 Computer Graphics
- CSCD27H3 Computer and Network Security
- CSCD58H3 Computer Networks
- CSCD84H3 Artificial Intelligence
- CSC318H Design of Interactive Computational Media
- CSC320H Visual Computing
- CSC321H Introduction to Neural Networks and Machine Learning
- CSC401H Natural Language Computing
- CSC469H Operating Systems Design and Implementation
- CSC485H Computational Linguistics
- CSC488H Compilers and Interpreters

D. Health Informatics Stream
This stream requires a total of 30 courses (15.0 credits). In addition to the core requirements 1-5 common to all streams, 12 other distinct courses (6.0 credits) must be chosen satisfying all of the following requirements:

6. Additional courses related to health studies (2 credits)
- PHLB09H3 Biomedical Ethics
One of:
- Introduction to Health Management
  - (courses on health policy and politics)
    - HLTB16H3 Introduction to Public Health
    - HLTB17H3 Conceptual Models of Health
    - HLTB40H3 Health Policy and Health Systems
    - (HLTC40H3) Introduction to Health Economics
  
One of:
- (other courses on health studies)
  - HLTB22H3 Biological Determinants of Health
  - HLTC05H3 Society, Health and Illness

(*) These courses have prerequisites not included in this program’s requirements.

7. Additional required computer science and statistics courses (1.5 credits)
- CSCC01H3 Introduction to Software Engineering
- STAB57H3 Introduction to Statistics
- STAC50H3 Data Collection

8. Additional CSC, MAT and STA courses (2.5 credits)
- MATB41H3 Techniques of the Calculus of Several Variables I

Four of:
- any other C- or D-level CSC or STA courses, excluding STAD29H3 **†

NOTE: Of the five courses taken to satisfy this requirement, at least one must be a D-level course, and at least three must be CSC courses.
** Some C- and D-level CSC and STA courses have prerequisites that are not included among the required courses for this stream. Review the prerequisites carefully before selecting courses for this requirement. One or more courses taken to satisfy this requirement can be prerequisites for other courses also taken to satisfy this requirement.
† Among the CSC courses that can be used to satisfy this requirement there are two categories of courses that are particularly well aligned with the goals of the Health Informatics stream: software engineering and systems, and computer science applications. Courses in the category of software engineering and systems include: CSCC09H3, CSCC85H3, CSCD01H3, CSCD43H3, and CSCD58H3. Courses in the category of computer science applications include: CSCC11H3, CSCD18H3, and CSCD84H3.

E. Entrepreneurship Stream

This stream requires a total of 27 courses (13.5 credits). In addition to the core requirements 1-5 common to all streams, 9 other distinct courses (4.5 credits) must be chosen satisfying all of the following requirements:

6. Additional required courses (3.0 credits)
- CSCC01H3 Introduction to Software Engineering
- CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
- CSCC63H3 Computability and Computational Complexity
- CSCD01H3 Engineering Large Software Systems
- CSCD54H3 Technology Innovation and Entrepreneurship
- CSCD90H3 The Startup Sandbox

7. Electives from courses in computer science, mathematics, and statistics (1.5 credits)
Three of:
- MATB41H3 Techniques of the Calculus of Several Variables I
- STAB57H3 Introduction to Statistics
- CSCC09H3 Programming on the Web
- CSCC11H3 Introduction to Machine Learning and Data Mining
- CSCC24H3 Principles of Programming Languages
- CSCC85H3 Introduction to Embedded Systems
- CSCD18H3 Computer Graphics
- CSCD27H3 Computer and Network Security
- CSCD43H3 Database System Technology
- CSCD58H3 Computer Networks
- CSCD84H3 Artificial Intelligence
- CSC318H Design of Interactive Computational Media
- CSC320H Visual Computing
- CSC321H Introduction to Neural Networks and Machine Learning
- CSC401H Natural Language Computing
- CSC469H Operating Systems Design and Implementation
- CSC485H Computational Linguistics
- CSC488H Compilers and Interpreters
SPECIALIST (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)

Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Program Objectives
This program combines the coursework of the Specialist Program in Computer Science described above with paid work terms in public and private enterprises. It shares the goals and structure of the Specialist Program in Computer Science, including its five streams (Comprehensive, Software Engineering, Information Systems, Health Informatics, and Entrepreneurship), but complements study of the subject with considerable work experience.

Program Admission
Refer to the Program Admission requirements for the Specialist Program in Computer Science described above and the Co-operative Programs section in this Calendar. Students entering this program after first year must have a CGPA of at least 2.75. Admission to the Entrepreneurship also requires the submission of a Supplementary Application form available from the CMS website.

Program Requirements
To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

Work Term Eligibility & Requirements
Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete a minimum of 7.0 credits, including all first year required courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3), as well as the non-credit Arts & Science Co-op Navigating the World of Work Course (COPD01).

Course Requirements
The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Computer Science. For the course requirements of each stream, please refer to the description of the Specialist Program in Computer Science.

MAJOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)

Supervisor of Studies: R. Pancer (416-287-7679) Email: pancer@utsc.utoronto.ca

Program Objectives
This program provides basic knowledge of the foundations of computer science: modern computer software and hardware, theoretical aspects of computer science, and relevant areas of mathematics and statistics. This program is intended to be combined with other programs, typically a major program in another discipline.

Program Admission
Enrolment in the Major in Computer Science is limited.

Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required for the Major. Students with a CGPA of 2.5 or greater across the core A-level courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, and MATA37H3) are guaranteed admission.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3, CSCB07H3, CSCB09H3, CSCB36H3, CSCB63H3, and one of MATB24H3 or STAB52H3. The CGPA will be calculated across these 11 courses, and a CGPA of 2.5 or greater guarantees admission to the Major. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program.

Program Requirements
This program requires a total of 16 distinct courses (8 credits) satisfying all of the requirements listed below.

Note: Many Computer Science courses are offered both at U of T Scarborough and at the St. George campus. When a course is offered at both campuses in a given session, U of T Scarborough students are expected to take that course at U of T Scarborough. The Department of Computer Science at the St. George campus cannot guarantee space for U of T Scarborough students in their courses, especially those offered at both campuses.

1. A-level courses (3 credits)
   CSCA08H3 Introduction to Computer Science I
   CSCA48H3 Introduction to Computer Science II
   CSCA67H3 Discrete Mathematics
   MATA23H3 Linear Algebra I
   MATA31H3 Calculus I for Mathematical Sciences
   MATA37H3 Calculus II for Mathematical Sciences

2. B-level courses (3 credits)
   CSCB07H3 Software Design
Computer Science

CSCB09H3 Software Tools and Systems Programming
CSCB38H3 Introduction to the Theory of Computation
CSCB58H3 Computer Organization
CSCB63H3 Design and Analysis of Data Structures

One of (*):  
  MATB24H3 Linear Algebra II  
  STAB52H3 Introduction to Probability

(*) In making this choice, students should consider the prerequisites of courses they plan to take to satisfy requirements 3-4.

3. C-level courses in numerical computation and theory of computing (1 credit)
CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
One of:
  CSCC63H3 Computability and Computational Complexity  
  CSCC73H3 Algorithm Design and Analysis

4. CSC electives (1 credit)
Two of:
  Any C- or D-level CSC courses.

Writing Recommendation:
Students are urged to take a course from the following list of courses by the end of their second year: ANTA01H3, ANTA02H3, (CLAA02H3), (CTLA19H3), CTLA01H3, ENGA10H3, ENGA11H3, ENGB06H3, ENGB07H3, ENGB08H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HLTA01H3), (HUMA01H3), (HUMA11H3), (HUMA17H3), (LGGA99H3), LINA01H3, PHLA10H3, PHLA11H3, WSTA01H3.

MAJOR (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)

Supervisor of Studies: R. Pancer (416-287-7679)  E-mail: pancer@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Program Objectives
This program combines the coursework of the Major Program in Computer Science described above with paid work terms in public and private enterprises. It shares the objectives of the Major Program in Computer Science, but complements study of the subject with considerable work experience. This program must be combined with a major program in another discipline.

Program Admission
Refer to the Program Admission requirements for the Major Program in Computer Science described above and the Co-operative Programs section in this Calendar. Students entering this program must have a CGPA of at least 2.75.

Program Requirements
To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

Work Term Eligibility & Requirements
Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete a minimum of 7.0 credits, including all first year required courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA23H3, MATA31H3, MATA37H3), as well as the non-credit Arts & Science Co-op Navigating the World of Work Course (COPD01).

Course Requirements
The course requirements of the Co-operative Major Program in Computer Science are identical to those of the Major Program in Computer Science described above.

MINOR PROGRAM IN COMPUTER SCIENCE (SCIENCE)

Supervisor of Studies: R. Pancer (416-287-7679)  Email: pancer@utsc.utoronto.ca

Program Objectives
This program provides a basic introduction to the tools and methodologies of computer science and equips students with the knowledge necessary to use the tools and methodologies as they relate to other subjects. The program is intended to complement programs in other disciplines.

Program Admission
Enrolment in the Minor in Computer Science is limited.

Students may apply to enter the program after completing 5.0 credits, and must have passed all of the A-level CSC and MAT courses required for the
Minor. Students with a CGPA of at least 2.5 across CSCA48H3 and their chosen MAT course (MATA23H3, MATA30H3, MATA31H3, MATA32H3, or CSCA67H3/MATA67H3) are guaranteed admission. Admission for students with a CGPA that is less than 2.5 will depend on their CGPA, and the space available in the program. Students in the Minor may take a maximum of 3 CSC elective courses (1.5 credits) at the C-level and D-level.

Program Requirements
This program may not be combined with any Major or Specialist Program in Computer Science, Mathematics or Statistics. It requires 4.0 credits as follows:

1. Introductory programming courses (1.0 credit)
   CSCA08H3 Introduction to Computer Science I (*)
   CSCA48H3 Introduction to Computer Science II
   (*) CSCA20H3 may be substituted for CSCA08H3 with permission of the Supervisor of Studies.

2. Basic mathematics courses (0.5 credit)
   One of:
   CSCA67H3/MATA67H3 Discrete Mathematics
   MATA23H3 Linear Algebra I
   MATA30H3 Calculus I for Physical Sciences
   MATA31H3 Calculus I for Mathematical Sciences
   MATA32H3 Calculus for Management I
   PHLB50H3 Symbolic Logic I

3. Intermediate programming, systems, and theory courses (1.5 credits)
   Three of:
   CSCB07H3 Software Design
   CSCB09H3 Software Tools and Systems Programming
   CSCB20H3 Introduction to Databases and Web Applications
   CSCB36H3 Introduction to the Theory of Computation(**)
   CSCB58H3 Computer Organization
   CSCB63H3 Design and Analysis of Data Structures(***)
   (**) CSCB36H3 requires CSCA67H3
   (***)) CSCB63H3 requires CSCB36H3

4. CSC electives (1.0 credit)
   Two of:
   Any C- or D-level CSC courses (*)
   (*) Some C- or D-level courses have prerequisites that would have to be taken in addition to the 4 credits required for this program. Check the prerequisites carefully before selecting courses to satisfy this requirement.

Computer Science Courses

CSCA08H3 Introduction to Computer Science I
Programming in an object-oriented language such as Python. Program structure: elementary data types, statements, control flow, functions, classes, objects, methods. Lists; searching, sorting and complexity. This course is intended for students having a serious interest in higher level computer science courses, or planning to complete a computer science program.
Prerequisite: Grade 12 Calculus & Vectors and one other Grade 12 mathematics course.
Exclusion: CSCA20H3, CSC108H, CSC120H. CSCA08H3 may not be taken after or concurrently with CSCA48H3.
Breadth Requirement: Quantitative Reasoning
NOTE: This course does not require any prior exposure to computer programming.

CSCA20H3 Introduction to Programming
An introduction to computer programming, with an emphasis on gaining practical skills. Introduction to programming, software tools, database manipulation. This course is appropriate for students with an interest in programming and computers who do not plan to pursue a Computer Science program.
Exclusion: CSCA08H3, CSC108H, CSC120H
Breadth Requirement: Quantitative Reasoning
NOTE: This course does not require any prior exposure to computer programming.

CSCA48H3 Introduction to Computer Science II
Prerequisite: CSCA08H3
Exclusion: CSC148H
Breadth Requirement: Quantitative Reasoning
CSCA67H3 Discrete Mathematics
Introduction to discrete mathematics: Elementary combinatorics; discrete probability including conditional probability and independence; graph theory including trees, planar graphs, searches and traversals, colouring. The course emphasizes topics of relevance to computer science, and exercises problem-solving skills and proof techniques such as well ordering, induction, contradiction, and counterexample. Same as MATA67H3
Prerequisite: Grade 12 Calculus and Vectors & one other Grade 12 mathematics course
Exclusion: MATA67H3, (CSCA65H3), CSC165H, CSC240H, MAT102H
Recommended Preparation: CSCA08H3 or CSCA20H3
Breadth Requirement: Quantitative Reasoning

CSCB07H3 Software Design
An introduction to software design and development concepts, methods, and tools, using a statically-typed object-oriented language such as Java. Topics from: version control, build management, unit testing, refactoring, object oriented design and development, design patterns and advanced IDE usage.
Prerequisite: CSCA48H3 and [CGPA 2.5 or enrolment in a CSC Subject POSt]
Exclusion: CSC207H
Breadth Requirement: Quantitative Reasoning

CSCB09H3 Software Tools and Systems Programming
Software techniques in a Unix-style environment, using scripting languages and a machine-oriented programming language (typically C). What goes on in the system when programs are executed. Core topics: creating and using software tools, pipes and filters, file processing, shell programming, processes, system calls, signals, basic network programming.
Prerequisite: CSCA48H3 & [CGPA 2.5 or enrolment in a CSC Subject POSt]
Exclusion: CSC209H
Breadth Requirement: Quantitative Reasoning

CSCB20H3 Introduction to Databases and Web Applications
A practical introduction to databases and Web app development. Databases: terminology and applications; creating, querying and updating databases; the entity-relationship model for database design. Web documents and applications: static and interactive documents; Web servers and dynamic server-generated content; Web application development and interface with databases.
Prerequisite: Some experience with programming in an imperative language such as Python, Java or C.
Exclusion: This course may not be taken after - or concurrently with - any C- or D-level CSC course.
Recommended Preparation: CSCA08H3 or CSCA20H3
Breadth Requirement: Quantitative Reasoning

CSCB29H3 Concepts in Elementary Computer Science
A course specifically for students intending to become elementary or high school teachers. Computer science concepts will be discussed at a fundamental level. Topics covered: problem solving, algorithms, recursion, applications, connections to mathematics, connections to society. Throughout the course, students will apply these concepts to fit the current Ministry’s Guidelines for the various grade levels. Students may be required to teach some one-hour classes to various grade levels in an approved school. This is a “teaching friendly” course. The course will be broken up into three distinct topics: elementary level (grades K-5), intermediate (grades 6-9), senior (grades 10-12).
Prerequisite: [CSCA08H3 or CSCA20H3 or PSCB57H3] & 3 other credits & a CGPA of at least 2.5. Priority will be given to ETP/CTEP students. Note: This course assumes programming experience in a language such as Python, C++ or Java as provided by CSCA08H3. Students who already have this background may consult the instructor or Supervisor of Studies for advice about skipping CSCA08H3/CSCA20H3/PSCB57H3
Exclusion: This course may not be taken after - or concurrently with - any C- or D-level CSC course.
Breadth Requirement: Quantitative Reasoning

CSCB36H3 Introduction to the Theory of Computation
Mathematical induction with emphasis on applications relevant to computer science. Aspects of mathematical logic, correctness proofs for iterative and recursive algorithms, solutions of linear and divide-and-conquer recurrences, introduction to automata and formal languages.
Prerequisite: CSCA48H3 & [(CSCA65H3) or CSCA67H3] & [CGPA 2.5 or enrolment in a CSC Subject POSt]
Exclusion: CSC236H, CSC240H
Breadth Requirement: Quantitative Reasoning

CSCB58H3 Computer Organization
Principles of the design and operation of digital computers. Binary data representation and manipulation, Boolean logic, components of computer systems, memory technology, peripherals, structure of a CPU, assembly languages, instruction execution, and addressing techniques. There are a number of laboratory periods in which students conduct experiments with digital logic circuits.
Prerequisite: [CSCA48H3 or PSCB57H3] & [CGPA 2.5 or enrolment in a CSC Subject POSt]
Exclusion: CSC258H
Breadth Requirement: Quantitative Reasoning

CSCB63H3 Design and Analysis of Data Structures
Prerequisite: CSCB36H3 & [CGPA 2.5 or enrolment in a CSC Subject POSt]
Exclusion: CSC263H, CSC265H
Breadth Requirement: Quantitative Reasoning

CSCC01H3 Introduction to Software Engineering
Introduction to software development methodologies with an emphasis on agile development methods appropriate for rapidly-moving projects. Basic software development infrastructure; requirements elicitation and tracking; prototyping; basic project management; basic UML; introduction to software architecture; design patterns; testing.
Prerequisite: CSCB07H3, CSCB09H3, & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC301H, (CSCC40H3), (CSCD08H3)
Breadth Requirement: Quantitative Reasoning

CSCC09H3 Programming on the Web
Prerequisite: CSCB09H3 & CSCC43H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC309H
Breadth Requirement: Quantitative Reasoning
CSCC10H3 Human-Computer Interaction
The course will provide an introduction to the field of Human-Computer Interaction (HCI) with emphasis on guidelines, principles, methodologies, and tools and techniques for analyzing, designing and evaluating user interfaces. Subsequent topics include usability assessment of interactive systems, prototyping tools, information search and visualization, mobile devices, social media and social networking, and accessibility factors.
Prerequisite: CSCB07H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CCT380H, CSC31H
Breadth Requirement: Quantitative Reasoning

CSCC11H3 Introduction to Machine Learning and Data Mining
Prerequisite: MATB24H3 and MATB41H3 and STAB52H3 and [CGPA 3.0 or enrolment in a CSC, STA or Quantitative Analysis Subject POSt].
Exclusion: CSC411H, (CSCD11H3)
Recommended Preparation: CSCC37H3
Breadth Requirement: Quantitative Reasoning

CSCC24H3 Principles of Programming Languages
Major topics in the design, definition, analysis, and implementation of modern programming languages. Study of programming paradigms: procedural (e.g., C, Java, Python), functional (e.g., Scheme, ML, Haskell) and logic programming (e.g., Prolog, Mercury).
Prerequisite: CSCB07H3 & CSCB09H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC324H
Breadth Requirement: Quantitative Reasoning

CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
An introduction to computational methods for solving problems in linear algebra, non-linear equations, approximation and integration. Floating-point arithmetic; numerical algorithms; application of numerical software packages.
Prerequisite: [MATA36H3 or MATA37H3] & MATA23H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: (CSCC36H3), (CSCC50H3), (CSCC51H3), CSC336H, CSC350H, CSC351H, CSC338H
Breadth Requirement: Quantitative Reasoning

CSCC43H3 Introduction to Databases
Introduction to database management systems. The relational data model. Relational algebra. Querying and updating databases: the SQL query language. Application programming with SQL. Integrity constraints, normal forms, and database design. Elements of database system technology: query processing, transaction management.
Prerequisite: CSCB09H3 & CSCB63H3 [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC343H
Breadth Requirement: Quantitative Reasoning

CSCC63H3 Computability and Computational Complexity
Introduction to the theory of computability: Turing machines, Church's thesis, computable and non-computable functions, recursive and recursively enumerable sets, reducibility. Introduction to complexity theory: models of computation, P, NP, polynomial time reducibility, NP-completeness, further topics in complexity theory.
Note: Although the courses CSCC63H3 & CSCC73H3 may be taken in any order, it is recommended that CSCC73H3 be taken first.
Prerequisite: CSCB36H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC363H, CSC365H, CSC364H
Breadth Requirement: Quantitative Reasoning

CSCC69H3 Operating Systems
Principles of operating systems. The operating system as a control program and as a resource allocator. The concept of a process and concurrency problem: synchronization, mutual exclusion, deadlock. Additional topics include memory management, file systems, process scheduling, threads, and protection.
Prerequisite: CSCB07H3 & CSCB09H3 & CSCB58H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC369H
Breadth Requirement: Quantitative Reasoning

CSCC73H3 Algorithm Design and Analysis
Standard algorithm design techniques: divide-and-conquer, greedy strategies, dynamic programming, linear programming, randomization, and possibly others.
Prerequisite: CSCB63H3 & STAB52H3; [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC373H, CSC375H, CSC364H
Breadth Requirement: Quantitative Reasoning

CSCC85H3 Introduction to Embedded Systems
The course covers the components and fundamental principles of operation of systems built around micro-processing elements: the architecture, operation, and types of micro-processing components; sensors, actuators, signal acquisition and processing, and basic principles of control theory. Laboratory sessions involving the use of a mobile robotic platform provide hands-on experience.
Prerequisite: CSCB07H3 and CSCB09H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: ECE385H
Recommended Preparation: CSCB07H3
Breadth Requirement: Quantitative Reasoning

CSCD01H3 Engineering Large Software Systems
An introduction to the theory and practice of large-scale software system design, development, and deployment. Project management; advanced UML; requirements engineering; verification and validation; software architecture; performance modeling and analysis; formal methods in software engineering.
Prerequisite: CSCC01H3 & [CGPA 3.0 or enrolment in a CSC Subject POSt]
Exclusion: CSC302H, (CSCD08H3)
Breadth Requirement: Quantitative Reasoning
**CSCD03H3 Social Impact of Information Technology**
The trade-offs between benefits and risks to society of information systems, and related issues in ethics and public policy. Topics will include safety-critical software; invasion of privacy; computer-based crime; the social effects of an always-online life; and professional ethics in the software industry. There will be an emphasis on current events relating to these topics.
Prerequisite: 14.0 credits and enrolment in a Computer Science Subject POST.
Exclusion: CSC300H
Breadth Requirement: Social & Behavioural Sciences

**CSCD18H3 Computer Graphics**
Identification and characterization of objects manipulated in computer graphics, operations on these objects, efficient algorithms to perform these operations, and interfaces to transform one type of object to another. Display devices, display data structures and procedures, graphical input, object modeling, transformations, illumination models, light effects; graphics packages and systems.
Prerequisite: MATB24H3 and MATB41H3 and [CSCB09H3 or proficiency in C] and CSCC37H3 and [a CGPA of at least 3.0 or enrolment in a Computer Science Subject POST]
Exclusion: CSC418H
Breadth Requirement: Quantitative Reasoning

**CSCD27H3 Computer and Network Security**
Public and symmetric key algorithms and their application; key management and certification; authentication protocols; digital signatures and data integrity; secure network and application protocols; application, system and network attacks and defences; intrusion detection and prevention; social engineering attacks; risk assessment and management.
Prerequisite: CSCB09H3 & CSCB36H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]
Exclusion: CSC427H
Recommended Preparation: CSCC69H3
Breadth Requirement: Quantitative Reasoning

**CSCD37H3 Analysis of Numerical Algorithms for Computational Mathematics**
Most mathematical models of real systems cannot be solved analytically and the solution of these models must be approximated by numerical algorithms. The efficiency, accuracy and reliability of numerical algorithms for several classes of models will be considered. In particular, models involving least squares, non-linear equations, optimization, quadrature, and systems of ordinary differential equations will be studied.
Prerequisite: CSCC37H3 & MATB24H3 & MATB41H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]
Exclusion: (CSCC50H3), (CSCC51H3), CSC350H, CSC351H
Breadth Requirement: Quantitative Reasoning

**CSCD43H3 Database System Technology**
Prerequisite: CSCC43H3 & CSCC69H3 & CSCC73H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]
Exclusion: CSC443H
Breadth Requirement: Quantitative Reasoning

**CSCD54H3 Technology Innovation and Entrepreneurship**
This course examines high-Tech innovation and entrepreneurship, principles of operation of successful high-tech enterprises, customer identification and validation, product development, business models, lean startup techniques, and financing of high-technology ventures. Students will work in teams to develop their own innovative product idea, and will produce a sound business plan to support their product.
Prerequisite: A minimum of 2.5 credits at the B-level or higher in CSC courses
Corequisite: CSCD90H3
Exclusion: CSC454H
Enrolment Limits: Restricted to students in the Entrepreneurship stream of the Specialist/Specialist Co-op programs in Computer Science
Breadth Requirement: Social & Behavioural Sciences

**CSCD58H3 Computer Networks**
Computer communication network principles and practice. The OSI protocol-layer model; Internet application layer and naming; transport layer and congestion avoidance; network layer and routing; link layer with local area networks, connection-oriented protocols and error detection and recovery; multimedia networking with quality of service and multicasting. Principles in the context of the working-code model implemented in the Internet.
Prerequisite: CSCB58H3 & CSCB63H3 & STAB52H3 & [CGPA 3.0 or enrolment in a CSC Subject POST]
Exclusion: CSC458H
Breadth Requirement: Quantitative Reasoning

**CSCD71H3 Topics in Computer Science**
A topic from computer science, selected by the instructor, will be covered.
The exact topic will typically change from year to year.
Prerequisite: Permission of the instructor & [CGPA 3.0 or enrolment in a CSC Subject POST]. Normally intended for students who have completed at least 8 credits.

**CSCD72H3 Topics in the Theory of Computing**
A topic from theoretical computer science, selected by the instructor, will be covered.
The exact topic will typically change from year to year.
Prerequisite: Permission of the instructor & [CGPA 3.0 or enrolment in a CSC Subject POST]. Normally intended for students who have completed at least 8 credits.

**CSCD84H3 Artificial Intelligence**
A study of the theories and algorithms of Artificial Intelligence. Topics include a subset of: search, game playing, logical representations and reasoning, planning, natural language processing, reasoning and decision making with uncertainty, computational perception, robotics, and applications of Artificial Intelligence. Assignments provide practical experience of the core topics.
Prerequisite: CSCC24H3 & STAB52H3 & [CGPA 3.0 or enrolment in a CSC subject POST]
Exclusion: CSC484H, CSC384H
Breadth Requirement: Quantitative Reasoning
CSCD90H3 The Startup Sandbox
In this capstone course, students will work in teams to develop a viable product prototype following the methodologies and techniques covered in CSCD54H3. Students will produce written reports, short videos pitching their idea, and a final presentation showcasing their proposed innovation, as it would be pitched to potential investors. The course instructor and TAs will provide close supervision and mentorship throughout the project.
Prerequisite: A minimum of 2.5 credits at the B-level or higher in CSC courses
Corequisite: CSCD54H3
Enrolment Limits: Restricted to students in the Entrepreneurship stream of the Specialist/Specialist Co-op programs in Computer Science
Breadth Requirement: Quantitative Reasoning

CSCD92H3 Readings in Computer Science
Students will examine an area of interest through reading papers and texts. This course is offered by arrangement with a computer science faculty member. It may be taken in any session, and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

CSCD94H3 Computer Science Project
A significant project in any area of computer science. The project may be undertaken individually or in small groups. This course is offered by arrangement with a computer science faculty member, at U of T Scarborough or the St. George campus. This course may be taken in any session and the project must be completed by the last day of classes in the session in which it is taken. Students must obtain consent from the Supervisor of Studies before registering for this course.
Prerequisite: [Three C-level CSC courses] & [permission of the Supervisor of Studies] & [CGPA 3.0 or enrolment in a CSC Subject POSt] Enrolment procedures: Project supervisor's note of agreement must be presented to the Supervisor of Studies, who must issue permission for registration.
Exclusion: CSC494H

CSCD95H3 Computer Science Project
Same description as CSCD94H3. Normally a student may not take two project half-courses on closely related topics or with the same supervisor. If an exception is made allowing a second project on a topic closely related to the topic of an earlier project, higher standards will be applied in judging it. We expect that a student with the experience of a first project completed will be able to perform almost at the level of a graduate student.
Prerequisite: CSCD94H3 Enrolment procedures: Project supervisor's note of agreement must be presented to the Supervisor of Studies, who must issue permission for registration.
Exclusion: CSC495H
Concurrent Teacher Education

Enrolment in the Concurrent Teacher Education Program (CTEP) has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013/14 UTSC Calendar.

Concurrent Teacher Education Courses

**CTEB01H3  Equity and Diversity in Education**
Focuses on raising awareness and sensitivity to issues related to equity, diversity and inclusion facing teachers and students in diverse schools and cultural communities. It includes field experience that entails observation of, and participation in equity and diversity efforts in a culturally-rooted school and/or community organization.
Prerequisite:  PSYB21H3 or [SOCA01H3 and SOCA02H3]
Exclusion:  CTE200H
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE:  Priority will be given to students enrolled in the Concurrent Teacher Education program. This course includes 12-20 hour field placements for CTEP students.

**CTEC01H3  Communication and Conflict Resolution**
This course will provide theoretical knowledge about small-group interactions and their application for interpersonal communication and conflict resolution. First, we will study the role of status characteristics, cross-cultural variation in communication, and the emergence of power as they relate to the etiology of conflict. How the same facts can be re-organized in conflict management and resolution will be the focus in the second half of the course. Students will work on case studies and write reports about them.
Prerequisite:  CTEB01H3 or SOCB26H3
Exclusion:  CTE250H
Enrolment Limits:  60
Breadth Requirement: Social & Behavioural Sciences
NOTE:  Priority will be given to students enrolled in the Concurrent Teacher Education program.

**PSYB21H3  Introduction to Developmental Psychology: Focus on Education**
Child and adolescent development in education. This course presents students with a broad and integrative overview of child development as it pertains to education. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development. In addition to the lecture component, students will complete a field placement in which they observe children's behaviour and think critically about development.
(Nota: course includes 12-20 hours of field placements)
Prerequisite:  Enrolment in CTEP
Exclusion:  CTE100H, PSYB20H3, PSY210H
Recommended Preparation:  PSYA01H3 & PSYA02H3
Breadth Requirement: Social & Behavioural Sciences
Curatorial Studies

Curatorial Studies Programs

MINOR PROGRAM IN CURATORIAL STUDIES (ARTS)

The Minor in Curatorial Studies will provide an introduction to students interested in understanding and creating exhibitions, interventions, and texts in diverse communities, within a globalized world. Students will work toward a creative cultural practice through the study of media, materials and techniques, research methodologies, cultural theory, training in connoisseurship, critical analysis of art and social relationships, and in the organization of exhibitions, interventions and on-line projects. Students will be familiarized with current trends in practice, theories, and criticism, and will study the artistic production of historical and diverse cultures of the modern and contemporary world. Emphasis will be placed on experiential education through studio visits, gallery visits, technical workshops, exhibitions, installations, and fieldwork. Practical experience and collaborative skills will be developed as critical components of the learning process in Curatorial Studies courses, according to the established professional and academic guidelines for Curatorial Studies Programs.

Admission Requirements

This program is restricted to students who are enrolled in the Major in Art History, Specialist in Arts Management, Major in Media Studies, and Specialist or Major in Studio. Students may apply to the Minor in Curatorial Studies after completing 2.0 credits, including 0.5 credit from the following: [ACMB01H3, MDSA01H3, VPAA10H3, VPHA46H3, VPSA62H3, VPSA63H3].

Program Requirements

The program requires completion of 4.0 credits as follows:

1. 0.5 credit from the following:
ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
MDSA01H3 Introduction to Media Studies
VPAA10H3 Introduction to Arts Management
VPHA46H3 Ways of Seeing: Introduction to Art Histories
VPSA62H3 Foundation Studies in Studio
VPSA63H3 But Why Is It Art?

2. 1.0 credit as follows:
CRTB01H3 Introduction to Curating Art
VPSB73H3 Curatorial Perspectives I

3. 1.0 credit as follows:
CRTC72H3/VPHC72H3 Art, the Museum, and the Gallery
VPSC51H3 Curatorial Perspectives II

4. 0.5 credit from the following:
MDSB62H3 Visual Culture and Communication
MDSC61H3 Alternative Media
MDSD01H3 Seminar: Topics in Media and Art
VPHB78H3 Our Town, Our Art: Local Collections I
VPHB79H3 Our Town, Our Art: Local Collections II
VPHC75H3 The Artist, Maker, Creator

5. 1.0 credit as follows:
CRTD43H3 Curating Contemporary Art
CRTD44H3 Curating Historical Art

Curatorial Studies Courses

CRTB01H3 Introduction to Curating Art
An introduction to the theory, ethics and contexts of art museum/gallery curatorial practice. Emphasis on communication through exploring interpretations and considering ethical practice. Students will learn specialized knowledge, resources, references and methodologies and explore professional and academic responsibilities of art-based curatorial work.
Prerequisite: Any 2.0 credits at A-level

Exclusion: (VPHB72H3), FAH301H5, FAH310H5
Enrolment Limits: Restricted to students who have completed the A-level courses in the Major or Specialist programs in Art History, Arts Management, Studio Art, or Media Studies.
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Minor in Curatorial Studies. Additional students will be admitted as space permits.
CRTB02H3 Exhibiting Art
A critical look at ways of exhibiting art, from a variety of international, historical and contemporary perspectives with emphasis on today's displays in public and private institutions, and on beyond-the-gallery installation, performance, and virtual art practices.
Prerequisite: VPHA46H3
Exclusion: (VPHB71H3), FAH310H
Breadth Requirement: Arts, Literature & Language

CRTC72H3 Art, the Museum, and the Gallery
Art and the settings in which it is seen in cities today. Some mandatory classes to be held in Toronto museums and galleries, giving direct insight into current exhibition practices and their effects on viewer's experiences of art; students must be prepared to attend these classes.
Same as VPHC72H3
Prerequisite: ACMB01H3 and CRTB01H3 and CRTB02H3
Exclusion: VPHC72H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

CRTD43H3 Curating Contemporary Art
Curatorial practice and the responsibilities of the curator, such as the intellectual and practical tasks of producing a contemporary art exhibition, researching Canadian contemporary art and artists, building a permanent collection, administrating a public art competition, and critical writing about works of visual art in their various contexts. Studio and/or gallery visits required.
Prerequisite: 11.0 credits including VPHB39H3, CRTB01H3 and CRTB02H3
Exclusion: (VPHD43H3)
Breadth Requirement: Arts, Literature & Language

CRTD44H3 Curating Historical Art
Time and history bring different factors to our understanding and interpretation of artworks. Students will explore both intellectual and practical factors concerning curating historical art, from conservation, research, and handling issues to importance of provenance, collecting, and display, through workshops, critical writing and discussion, field trips, and guest speakers.
Prerequisite: 11.0 credits including VPHB39H3, CRTB01H3 and CRTB02H3
Exclusion: (VPHD44H3)
Breadth Requirement: Arts, Literature & Language
Diaspora and Transnational Studies

Faculty List

- G. Daswani, B.Sc. (National University of Singapore), M.Sc., Ph.D. (London School of Economics), Assistant Professor
- M.B. Goldman, M.A. (Victoria), Ph.D. (Toronto), Associate Professor
- E.A. Harney, M.Phil., Ph.D. (London), Associate Professor
- N. Kortenaar, M.A., Ph.D. (Toronto), Professor
- M. Lambe, B.A. (McGill), M.A., Ph.D. (Michigan), F.R.S.C., Professor
- P. Landolt, B.A., M.A. (York), M.A., Ph.D. (Johns Hopkins), Associate Professor
- K. MacDonald, B.A., M.A., Ph.D. (Waterloo), Associate Professor
- A. Paz, B.A. (Queen’s), M.A. (Tel Aviv), M.A. (Chicago), Ph.D. (Chicago), Assistant Professor

Program Advisor: Benjamin Pottruff Email: dts-advisor@utsc.utoronto.ca

Where is home? Need it be in one place? Is it always attached to territory? Diaspora and transnational studies examines the historical and contemporary movements of peoples and the complex problems of identity and experience to which these movements give rise as well as the creative possibilities that flow from movement. The program is comparative and interdisciplinary, drawing from the social sciences, history and the arts. Students are required to take two linked half-courses that offer an introduction to a broad array of themes and disciplinary methodologies and two fourth year seminars that build on the understanding developed in the course of the program. The program offers a wide selection of additional courses, giving students the opportunity to learn about a range of diasporic communities as well as key debates in the field.

Diaspora and Transnational Studies Programs

MAJOR PROGRAM IN DIASPORA AND TRANSNATIONAL STUDIES (ARTS)

Enrolment in the Major program in Diaspora and Transnational Studies has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013-2014 UTSC Calendar.

MINOR PROGRAM IN DIASPORA AND TRANSNATIONAL STUDIES (ARTS)

Enrolment in the Minor program in Diaspora and Transnational Studies has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013-2014 UTSC Calendar.

Diaspora and Transnational Studies Courses

DTSB01H3 Introduction to Diaspora and Transnational Studies I
An interdisciplinary introduction to the study of diaspora, with particular attention to questions of history, globalization, cultural production and the creative imagination. Material will be drawn from Toronto as well as from diasporic communities in other times and places.
Exclusion: DTS200Y, DTS201H
Breadth Requirement: Social & Behavioural Sciences
NOTE: It is recommended that students take DTSB01H3 in their second year of study.

DTSB02H3 Introduction to Diaspora and Transnational Studies II
A continuation of DTSB01H3. An interdisciplinary introduction to the study of diaspora, with particular attention to questions of history, globalization, cultural production and the creative imagination. Material will be drawn from Toronto as well as from diasporic communities in other times and places.
Prerequisite: It is recommended that DTSB01H3 and DTSB02H3 be taken in the same academic year.
Exclusion: DTS200Y, DTS202H
Breadth Requirement: Social & Behavioural Sciences
Economics for Management Studies

Faculty List

1. I. Au, B.A., M.A., Ph.D. (Simon Fraser), Associate Professor, Teaching Stream
2. M. Campolieti, B.Sc., M.A., Ph.D. (Toronto), Professor
3. A. Chandra, B.A. (India), M.A., Ph.D. (Illinois), Assistant Professor
4. G.H. Cleveland, B.A. (Dalhousie), M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
5. E. Dhuey, B.A. (Colorado), M.A., Ph.D. (California), Associate Professor
6. A.M. Franco, B.A. (California), M.A., Ph.D. (Rochester), Associate Professor
7. G. Frazer, B. Math. (Waterloo), B.Ed. (Western), M.A. (Toronto), M.Phil., Ph.D. (Yale), Associate Professor
8. M. Gonzalez-Navarro, B.A. (Itam), M.A., Ph.D. (Princeton), Assistant Professor
9. H. Krashinsky, B.A. (Queen's), M.A., Ph.D. (Princeton), Associate Professor
10. M. Krashinsky, S.B. (M.I.T.), M.Phil., Ph.D. (Yale), Professor
11. A. Mazaheri, B.A.(Imam Sadegh), M.A, Ph.D. (Toronto), Associate Professor, Teaching Stream
12. I.C. Parker, B.A. (Manitoba), M.A. (Toronto), Ph.D. (Yale), Associate Professor
13. J. Parkinson, Hon B.A. (Western), M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream

Chair: D. Zweig

Economics studies how consumers and producers interact in a market economy to provide goods and services. Economics also studies how this process grows and changes over time, and under what circumstances it may fail to function in an optimal fashion. Economic policies to remedy those failures are also examined.

In the Department of Management, the study of Economics is oriented primarily to the needs of students interested in management studies. Therefore, many of our examples will focus on the ways in which firms and consumers in market economies interact. However, students interested in the wide variety of problems considered by Economists will find those matters are also addressed in our courses.

Economics plays a significant role within the various programs leading to the B.B.A. degree. The curriculum provides an excellent background for careers in business, government, and the professions, and may be of considerable interest to students specializing in other disciplines as well. Students may focus their study of economics in the Specialist Program in Economics for Management Studies (with a co-op option) as part of the B.B.A., or may either major or minor in Economics as part of the B.A. degree.

Students wishing to pursue a graduate program in Economics may require some additional courses such as advanced microeconomics, advanced macroeconomics, and others. Students should consult with the Academic Director in Economics at UTSC for advice on selecting appropriate courses for graduate studies.

Programs in Economics for Management Studies

Some students are directly admitted from high school, but generally most students apply to the program at the end of their first year. Later admission is also possible. Students should consult the detailed discussion below.

The following Programs are offered:
1. Specialist in Economics for Management Studies (co-op) - a Specialist Program in Economics in the context of a Management degree, and including Co-op work terms. This Program leads to a B.B.A. Described in detail below.
2. Specialist in Economics for Management Studies (non co-op) - a Specialist Program in Economics in the context of a Management degree. This program leads to a B.B.A. Described in detail below.
3. Major in Economics for Management Studies - program of six full credits of Economics for Management Studies, one full credit in Mathematics and one full credit in any courses offered by the Centre for French and Linguistics, Department of Arts, Culture and Media, Department of English, Department of Historical and Cultural Studies, and the Department of Philosophy. This is an Arts program. (See the Degrees section of this Calendar for information on B.A. and B.Sc. degrees.) Described in detail below.
   Note: Students cannot graduate with credit for both a B.B.A. and Major Program in Economics for Management Studies.
4. Minor in Economics for Management Studies - program of four full credits of Economics for Management Studies. This is an arts program. (See the Degrees section of this Calendar for information on B.A. and B.Sc. degrees.) Described in detail below.
   Note: Students may not be jointly enrolled in a program leading to a B.B.A. and in the Minor Program in Economics for Management Studies.

Other Programs with a substantial component of Economics for Management Studies:
5. Specialist in Management B.B.A. (non co-op) - a program emphasizing Management but including four full credits in Economics for Management Studies, leading to a B.B.A. degree. Described in detail in the Management section of this Calendar.
6. Specialist in Management B.B.A. (co-op) - same as #5 above, but also includes Co-op work terms.
7. Specialist or Major in International Development Studies or Major in Public Policy or Major in Health Studies within which students may choose to include a significant component from Economics for Management Studies. Described in detail elsewhere in this Calendar.
Admission to Programs in Economics for Management Studies and in Management

1. All students, both those who have been directly admitted into the Department from high school and those admitted into pre-program must formally apply to specific programs after the completion of four credits at UTSC. Decisions are made on program admissions by the Academic Director twice a year, in May and in August. These decisions are based on program requests which students submit to the Registrar (see the online Registrar's Guide). Students are allowed to apply to the program up to a maximum of ten full credits. Note that enrolment in MGEB02H3, MGEB06H3, MGEB11H3, MGEB12H3, MGEC02H3, MGEC06H3, MGEC11H3, MGED11H3, MGED02H3, and MGED06H3 will be strictly limited to students enrolled in Specialist or Major programs in the Department of Management and, where possible, other students who meet the academic merit criteria.

2. Those students directly admitted into the Department from high school are guaranteed entry into a program in the Department (only a limited number of students not directly admitted in Co-op Programs will be accepted into Co-op programs after first year). Directly admitted students must maintain a CGPA of 2.0 or greater for the Major in Economics and the non co-op B.B.A., and a CGPA of 2.5 for the Co-op B.B.A.

3. Admission to the Minor Program in Economics for Management Studies is not limited. All students who apply to this program will be admitted. However, students do not have guaranteed admission to most of the B-level and C-level Economic courses, and will only be accommodated after the program students have been admitted. Therefore, many courses may be unavailable to students in this program.

Economics for Management Studies Courses with Limited Enrolment

Students who have been admitted to a Specialist or a Major program in the Department of Management have guaranteed access to enough courses in Economics for Management Studies to complete their programs. To protect that access program students must register early during the enrolment priority period. After the enrolment priority period ends other students are given access to Economics for Management Studies courses based on academic merit. Students not formally admitted to a Specialist or Major program in the Management Department will likely experience difficulty in gaining access to enough courses to complete an Economics for Management Studies program.

The Department of Management has changed its ECM nomenclature to MGE. Consult the table below for course equivalencies if you joined the UTSC Management Program prior to 2013.

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<th>Course Title</th>
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<td>Advanced Macroeconomic Theory</td>
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<td>ECMD50H3</td>
<td>MGED50H3</td>
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Economics for Management Studies Programs

SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: Iris Au  Email: ecoss@utsc.utoronto.ca

This program will provide a specialization for those wishing for a substantial component of Economics in a Management degree leading to a Bachelor of Business Administration (B.B.A.). The students in this program may be seeking to prepare themselves for studies in Economics at the Masters' level. For full details and program admission and requirements, please refer to the Management section of this Calendar.

MAJOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)

Academic Director: Iris Au  Email: ecoss@utsc.utoronto.ca

This Program is designed to give a coordinated exposure to the subject matter of Economics for Management Studies to students pursuing the four-year degree with more than a single area of concentration.

Program Admission

Note: Registration in this Program is limited. Students must have completed a minimum of 4.0 credits to be considered for this program. Required courses include MGEA02H3/(ECMA04H3), MGEA06H3/(ECMA06H3), and [MATA32H3 & MATA33H3] (or equivalents). Decisions will be made on the basis of cumulative GPA. Students may apply until they have completed up to 10 full credits, and admission will be on the basis of all grades received. Students who have completed more than 10 full credits will not be considered for admission to the Program. Students should be aware that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program.

Note: Students in the B.B.A. may not jointly enroll in the Major Program in Economics for Management Studies

Program Requirements

The Program consists of 6.0 credits in Economics for Management Studies, 1.0 full credit in Mathematics and 1.0 full credit in any courses offered by the Centre for French and Linguistics, Department of Arts, Culture and Media, Department of English, Department of Historical and Cultural Studies, and the Department of Philosophy. The Economics courses must include:

- MGEA02H3/(ECMA04H3) & MGEA06H3/(ECMA06H3)
- MGBB02H3/(ECMB02H3) & MGBB06H3/(ECMB06H3)
- MGBB11H3/(ECMB11H3) & MGBB12H3/(ECMB12H3)
- MGEC02H3/(ECMC02H3) & MGEC06H3/(ECMC06H3)
- MGEC11H3/(ECMC11H3)

Plus 1.5 full credits chosen from the courses in Economics for Management Studies including at least one at the C-level (excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)). Students must also complete [MATA32H3 & MATA33H3] or [MATA30H3/A31H3 & MATA35H3/A36H3/A37H3] and one full credit in any course offered by the Centre of French & Linguistic; Department of Arts, Culture & Media; Department of Historical & Cultural Studies; Department of English; and the Department of Philosophy.

Note: Students who take MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and then decide to apply for this program will be permitted to substitute MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) for [MGEA02H3/(ECMA04H3) & MGEA06H3/(ECMA06H3)]. However, these students will be required to complete [MATA32H3 & MATA33H3] or [MATA30H3/A31H3 & MATA35H3/A36H3/A37H3], before registering in MGBB02H3/(ECMB02H3), MGEC06H3/(ECMB06H3), MGBB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3).

STUDENTS WHO ARE CONSIDERING COMBINING PROGRAMS BETWEEN ECONOMICS AND STATISTICS

For students who are intending to pursue a major in Economics with a major or minor in Statistics, we advise the following recommended sequence of required courses. If the sequence outlined below is not followed, it may result in the student taking exclusions and incurring an "EXTRA" credit. An "EXTRA" credit does NOT count towards the 20 credit degree requirement.

- STAB52H3
- STAB57H3
- MGBB12H3/(ECMB12H3)
- MGEC11H3/(ECMC11H3)*
- STAC67H3

* MGEC11H3/(ECMC11H3) may be taken concurrently with STAC67H3. However, if MGEC11H3/(ECMC11H3) is taken after STAC67H3, it will count as an "EXTRA" course and no credit will be given for the degree requirements.
MINOR PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (ARTS)

Academic Director: Iris Au  Email: ecoss@utsc.utoronto.ca

This program is designed to give exposure to the subject matter in some areas of Economics to students who will combine this minor with other programs in order to graduate. (See the Degrees section of this Calendar for information.) Students need not have completed Grade 12 Calculus in order to enter this program.

Program Admission
Admission in this program is not limited and does not require training in Calculus. All Students who apply for this program will be admitted. However, students are warned that they are not guaranteed admission to most of the B-level, C-level, and D-level courses. Students will be accommodated only after other program students have been admitted to these courses; therefore, many courses may be unavailable. Students will note that some of the B- and C-level courses in Economics for Management Studies do require Calculus; therefore, students signed up for the Minor Program must choose their courses carefully to ensure that they have the necessary prerequisites.

Note: Students in the B.B.A. may not jointly enroll in the Minor Program in Economics for Management Studies.

Program Requirements
The program consists of 4.0 credits in Economics for Management Studies as follows:

- MGEA01H3/(ECMA01H3) or MGEA02H3/(ECMA04H3)
- MGEA05H3/(ECMA05H3) or MGEA06H3/(ECMA06H3)
- MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
- MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)

Plus two more full credits in Economics for Management Studies, including at least one at the C-level.

Note: Students are warned that they are not guaranteed admission to most of the B-level and C-level courses. The following C-level courses, (MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3) & MGEC93H3/(ECMC93H3) are available to students in the minor program at the beginning of the registration period.

Note: Students may if they wish, count STAB22H3, ANTC35H3, PSYB07H3 or (SOCB06H3) or a more advanced statistics course as one half credit B-level Economics course in the Minor Program in Economics for Management Studies. While it is not required, students are strongly encouraged to include a statistics course in the program.

Economics for Management Studies Courses

MGEA01H3  Introduction to Microeconomics
Economic theory of the firm and the consumer. Although calculus is not used in this course, algebra and graphs are used extensively to illuminate economic analysis.

Note: This course is not for students interested in applying to the Specialists in Management and Economics leading to the B.B.A or for the Major program in Economics.

Exclusion: MGEA02H3/(ECMA04H3), (ECMA01H3), ECO100Y, ECO105Y
Breadth Requirement: Social & Behavioural Sciences

MGEA02H3  Introduction to Microeconomics: A Mathematical Approach
Economic theory of the firm and the consumer. Calculus, algebra and graphs are used extensively. The course is oriented towards students interested in the Specialist Program in Management, the Specialist program in Economics for Management Studies, and the Major Program in Economics for Management Studies.

Prerequisite: Grade 12 Calculus
Exclusion: MGEA01H3/(ECMA01H3), (ECMA04H3), ECO100Y, ECO105Y
Recommended Preparation: It is strongly recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3).
Breadth Requirement: Social & Behavioural Sciences

MGEA05H3  Introduction to Macroeconomics
Topics include output, employment, prices, interest rates and exchange rates. Although calculus is not used in this course, algebra and graphs are used extensively to illuminate economic analysis.

Note: This course is not for students interested in applying to the Specialists in Management and Economics leading to the B.B.A or for the Major program in Economics.

Exclusion: MGEA06H3/(ECMA06H3), (ECMA05H3), ECO100Y, ECO105Y
Breadth Requirement: Social & Behavioural Sciences

MGEA06H3  Introduction to Macroeconomics: A Mathematical Approach
Study of the determinants of output, employment, prices, interest rates and exchange rates. Calculus, algebra and graphs are used extensively.

The course is oriented towards students interested in the Specialist Program in Management, the Specialist program in Economics for Management Studies, and the Major Program in Economics for Management Studies.

Prerequisite: Grade 12 Calculus
Exclusion: MGEA05H3/(ECMA05H3), (ECMA06H3), ECO100Y, ECO105Y
Recommended Preparation: It is strongly recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3).
Breadth Requirement: Social & Behavioural Sciences
MGB1H3  Price Theory
This course covers the intermediate level development of the principles of microeconomic theory. The emphasis is on static partial equilibrium analysis. Topics covered include: consumer theory, theory of production, theory of the firm, perfect competition and monopoly. This course does not qualify as a credit for either the Major in Economics for Management Studies or the B.B.A.
Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
Exclusion: MGB02H3/(ECMB02H3), (ECMB01H3), ECO200Y, ECO204Y, ECO206Y
Enrolment Limits: 120 per section
Breadth Requirement: Social & Behavioural Sciences

MGB02H3  Price Theory: A Mathematical Approach
Intermediate level development of the principles of microeconomic theory. The course will cover the same topics as MGB01H3/(ECMB01H3), but will employ techniques involving calculus so as to make the theory clearer to students. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3) and [(MATA32H3 and MATA33H3) (or equivalents) or (MATA27H3)]. Students who have completed MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and [MATA32H3 and MATA33H3] (or equivalents) may be admitted with the permission of the Supervisor of Studies.
Exclusion: MGB01H3/(ECMB01H3), (ECMB02H3), ECO200Y, ECO204Y, ECO206Y
Enrolment Limits: 80 per section
Breadth Requirement: Social & Behavioural Sciences

MGB05H3  Macroeconomic Theory and Policy
Intermediate level development of the principles of macroeconomic theory. Topics covered include: theory of output, employment, and the price level. This course does not qualify as a credit for either the Major in Economics for Management Studies or the B.B.A.
Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
Exclusion: MGB06H3/(ECMB06H3), (ECMB05H3), ECO202Y, ECO208Y, ECO209Y
Enrolment Limits: 120 per section
Breadth Requirement: Social & Behavioural Sciences

MGB06H3  Macroeconomic Theory and Policy: A Mathematical Approach
Intermediate level development of the principles of macroeconomic theory. The course will cover the same topics as MGB05H3/(ECMB05H3), but will employ techniques involving calculus so as to make the theory clearer to students. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3) and [(MATA32H3 and MATA33H3) (or equivalents) or (MATA27H3)]. Students who have completed MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and [MATA32H3 and MATA33H3] (or equivalents) may be admitted with the permission of the Supervisor of Studies.
Exclusion: MGB05H3/(ECMB05H3), (ECMB06H3), ECO202Y, ECO208Y, ECO209Y
Enrolment Limits: 80 per section
Breadth Requirement: Social & Behavioural Sciences

MGB11H3  Quantitative Methods in Economics I
An introduction to probability and statistics as used in economic analysis. Topics to be covered include: descriptive statistics, probability, special probability distributions, sampling theory, confidence intervals. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3) and [(MATA32H3 and MATA33H3) (or equivalent)] or (MATA27H3) and MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and [MATA32H3 and MATA33H3] (or equivalent) may be admitted with the permission of the Supervisor of Studies.
Enrolment Limits: 120 per section
Breadth Requirement: Quantitative Reasoning

MGB12H3  Quantitative Methods in Economics II
A second course in probability and statistics as used in economic analysis. Topics to be covered include: confidence intervals, hypothesis testing, simple and multiple regression. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGB11H3/(ECMB11H3) or (STAB27H3)
Exclusion: (ECMB12H3), ECO220Y, ECO227Y, STAB27H3, STAC67H3
Enrolment Limits: 80 per section
Breadth Requirement: Quantitative Reasoning
NOTE: STAB27H3 is not equivalent to MGB12H3/(ECMB12H3).

MGB31H3  Public Decision Making
A study of decision-making by governments from an economic perspective. The course begins by examining various rationales for public involvement in the economy and then examines a number of theories explaining the way decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian policy making.
Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
Exclusion: (ECMB35H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGB32H3  Economic Aspects of Public Policy
A course in the application of general theoretical systems models; the other half will empirically study Russia, China and other systems. A research-oriented course focused on the application of general systems theory to comparative analysis of alternative economic systems, capitalist, socialist and other. Half of the course will focus on general theoretical systems models; the other half will empirically study Russia, China and other systems.
Prerequisite: MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3) or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
Corequisite: MGB01H3/(ECMB01H3) or MGB02H3/(ECMB02H3)
Exclusion: (ECMB36H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGB60H3  Comparative Economic Systems
A study of decision-making by governments from an economic perspective. The course begins by examining various rationales for public involvement in the economy and then examines a number of theories explaining the way decisions are actually made in the public sector. The course concludes with a number of case studies of Canadian policy making.
Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
Corequisite: MGB01H3/(ECMB01H3) or MGB02H3/(ECMB02H3)
Exclusion: (ECMB68H3)
Economics for Management Studies

MGEC02H3  Topics in Price Theory
Continuing development of the principles of microeconomic theory. This course will build on the theory developed in MGEB02H3/(ECMB02H3). Topics will be chosen from a list which includes: monopoly, price discrimination, product differentiation, oligopoly, game theory, general equilibrium analysis, externalities and public goods. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEB02H3/(ECMB02H3) and [MATA32H3 and MATA33H3] (or equivalents)
Exclusion: (ECMC20H3), MGEC92H3/(ECMC92H3), ECO200Y, ECO204Y, ECO206Y
Enrolment Limits: 80 per section
Breadth Requirement: Social & Behavioural Sciences

MGEC06H3  Topics in Macroeconomic Theory
Continuing development of the principles of macroeconomic theory. The course will build on the theory developed in MGEB06H3/(ECMB06H3). Topics will be chosen from a list including consumption theory, investment, exchange rates, rational expectations, inflation, neo-Keynesian economics, monetary and fiscal policy. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEB06H3/(ECMB06H3) and [MATA32H3 and MATA33H3] (or equivalents)
Exclusion: (ECMC06H3), ECO202Y, ECO208Y, ECO209Y
Enrolment Limits: 80 per section
Breadth Requirement: Social & Behavioural Sciences

MGEC11H3  Introduction to Regression Analysis
This course will develop the knowledge and skills necessary to obtain and analyze economic data, providing an introduction to the use and interpretation of regression analysis. Students will learn how to estimate regressions, undertake hypothesis tests, and critically assess statistical interpretation of regression analysis. Students will learn how to estimate and analyze economic data, providing an introduction to the use and interpretation of regression analysis. Enrolment is limited to students registered in programs requiring this course.
Prerequisite: MGEB11H3/(ECMB11H3) and MGEB12H3/(ECMB12H3)
Enrolment Limits: 40
Breadth Requirement: Quantitative Reasoning

MGEC20H3  Economics of the Media
An examination of the role and importance of communications media in the economy. Topics to be covered include: the challenges media pose for conventional economic theory, historical and contemporary issues in media development, and basic media-research techniques. The course is research-oriented, involving empirical assignments and a research essay.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC20H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC21H3  Classics in the History of Economic Thought
A study of the literature of economics, both past and current. Students will read economists important in the development of current economic thought, including Smith, Marx, and Keynes, and will also read the ideas of some important current economic thinkers. Emphasis is on primary sources rather than secondary commentaries.
Prerequisite: [MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)] and [MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)]
Exclusion: (ECMC27H3), ECO322Y, ECO429Y
Enrolment Limits: 60 per section
Breadth Requirement: Social & Behavioural Sciences

MGEC31H3  Economics of the Public Sector: Taxation
A course concerned with the revenue side of government finance. In particular, the course deals with existing tax structures, in Canada and elsewhere, and with criteria for tax design.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC31H3), MGEC91H3/(ECMC91H3), ECO336Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC32H3  Economics of the Public Sector: Expenditures
A study of resource allocation in relation to the public sector, with emphasis on decision criteria for public expenditures. The distinction between public and private goods is central to the course.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC32H3), MGEC91H3/(ECMC91H3), ECO336Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC34H3  Economics of Health Care
A study of the economic principles underlying health care and health insurance. This course is a survey of some of the major topics in health economics. Some of the topics that will be covered will include the economic determinants of health, the market for medical care, the market for health insurance, and health and safety regulation.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC34H3), ECO369H, ECO369Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC37H3  Law and Economics
A study of laws and legal institutions from an economic perspective. It includes the development of a positive theory of the law and suggests that laws frequently evolve so as to maximize economic efficiency. The efficiency of various legal principles is also examined. Topics covered are drawn from: externalities, property rights, contracts, torts, product liability and consumer protection, and procedure.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC37H3), ECO320H, ECO320Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC38H3  The Economics of Canadian Public Policy
This course provides a comprehensive study of selected Canadian public policies from an economic point of view. Topics may include environmental policy, competition policy, inflation and monetary policy, trade policy and others. We will study Canadian institutions, decision-making mechanisms, implementation procedures, policy rationales, and related issues.
Prerequisite: [MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)]
MGEC40H3 Economics of Organization and Management
This course examines the economics of the internal organization of the firm. Emphasis will be on economic relationships between various parties involved in running a business: managers, shareholders, workers, banks, and government.
Topics include the role of organizations in market economies, contractual theory, risk sharing, property rights, corporate financial structure and vertical integration.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC40H3), ECO310Y, ECO370Y, ECO381H, ECO426H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC41H3 Industrial Organization
This course covers the economics of the firm in a market environment. The aim is to study business behaviour and market performance as influenced by concentration, entry barriers, product differentiation, diversification, research and development and international trade. There will be some use of calculus in this course.
Prerequisite: MGEB02H3/(ECMB02H3)
Exclusion: (ECMC41H3), MGEC52H3/(ECMC52H3), ECO310Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC51H3 Labour Economics I
Applications of the tools of microeconomics to various labour market issues. The topics covered will include: labour supply; labour demand; equilibrium in competitive and non-competitive markets; non-market approaches to the labour market; unemployment. Policy applications will include: income maintenance programs; minimum wages; and unemployment.
Prerequisite: MGEB02H3/(ECMB02H3)
Exclusion: (ECMC51H3), ECO239Y, ECO339Y, ECO361Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC52H3 Labour Economics II
A continuation of MGEC51H3/(ECMC51H3). Topics covered will include: unions; wage structures; sex and race discrimination; human capital theory; investment in education. Policy issues discussed will include: pay equity; affirmative action; training initiatives; and migration.
Prerequisite: MGEC51H3/(ECMC51H3) and MGEB02H3/(ECMB02H3) and MGEB12H3/(ECMB12H3)
Exclusion: (ECMC52H3), MGEC58H3/(ECMC58H3), ECO239Y, ECO339Y, ECO361Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC54H3 Economics of Education and the Family
This course studies the economic aspects of how families make decisions: about education, training, employment, child care, and having children. In particular, we study how women's decisions are affected by children and the need to care for them. We study how public policies regarding childcare, training, and education affect the decisions of family members, and discuss how these policies can be improved.
Prerequisite: MGEB02H3/(ECMB02H3)
Exclusion: (ECMC54H3), ECO332H
Enrolment Limits: 60

MGEC58H3 Economics of Human Resource Management
This course focuses on the various methods that firms and managers use to pay, recruit and dismiss employees. Topics covered may include: training decisions, deferred compensation, variable pay, promotion theory, incentives for teams and outsourcing.
Prerequisite: MGEB02H3/(ECMB02H3)
Exclusion: (ECMC58H3), MGEC52H3/(ECMC52H3), ECO339Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC61H3 International Economics: Trade Theory
An outline of the theories of international trade that explain why countries trade with each other, and the welfare implications of this trade, as well as empirical tests of these theories. The determination and effects of trade policy instruments (tariffs, quotas, non-tariff barriers) and current policy issues are also discussed.
Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)
Exclusion: (ECMC61H3), ECO230Y, ECO328Y, ECO365H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC62H3 International Economics: Finance
This course introduces students to the theoretical underpinnings of the international monetary system: fixed "versus" flexible exchange rates, international capital movements, and their implications for monetary policy.
Prerequisite: MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)
Exclusion: (ECMC62H3), MGEC59H3/(ECMC59H3), ECO230Y, ECO328Y, ECO365H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGEC71H3 Money and Banking
There will be a focus on basic economic theory underlying financial intermediation and its importance to growth in the overall economy. The interaction between domestic and global financial markets, the private sector, and government will be considered.
Prerequisite: MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)
Exclusion: (ECMC48H3)
Enrolment Limits: 60 per section
Breadth Requirement: Social & Behavioural Sciences

MGEC72H3 Financial Economics
This course introduces students to the theoretical underpinnings of financial economics. Topics covered include: intertemporal choice, expected utility, the CAPM, Arbitrage Pricing, State Prices (Arrow-Debreu security), market efficiency, the term structure of interest rates, and option pricing models. Key empirical tests are also reviewed.
Prerequisite: MGEB02H3/(ECMB02H3) and MGEB06H3/(ECMB06H3) and MGEB12H3/(ECMB12H3)
Exclusion: (ECMC49H3), ECO358H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
MGEC89H3 Topics in North American Economic Development
A study of the history of economic development in North America. Students will survey current theoretical approaches in economic history, study particular topics in North American economic history, and develop hands-on practice in data collection and analysis. Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) or MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3). Exclusion: (ECMC89H3), EC0321Y. Enrolment Limits: 60 per section. Breadth Requirement: History, Philosophy & Cultural Studies.

MGEC81H3 Economic Development
An introduction to the processes of growth and development in less developed countries and regions. Topics include economic growth, income distribution and inequality, poverty, health, education, population growth, rural and urban issues, and risk in a low-income environment. Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3). Exclusion: (ECMC66H3), EC0324Y. Enrolment Limits: 60. Breadth Requirement: Social & Behavioural Sciences.

MGEC82H3 Development Policy
A consideration of how government policy can affect the pace and nature of development in Third World countries. Emphasis will be on the most important policies including those relating to rural organization, agricultural goods markets, labour markets, credit markets, land rights systems, income distribution and technological change. Prerequisite: MGEC81H3/(ECMC66H3). Exclusion: (ECMC67H3), EC0324Y. Enrolment Limits: 60. Breadth Requirement: Social & Behavioural Sciences.

MGEC91H3 Economics and Government
This course provides an overview of what governments can do to benefit society, as suggested by economic theory and empirical research. It surveys what governments actually do, especially Canadian governments. Efficient methods of taxation and methods of controlling government are also briefly covered. Note: This course may be applied to the C-level course requirements of the Minor Program in Economics for Management Studies. It may not, however, be used to meet the requirements of any program that leads to the Minor Program in Economics for Management Studies. It may not, however, be used to meet the requirements of any program that leads to the Minor Program in Economics for Management Studies. Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3). Exclusion: (ECMC61H3), EC0326H, (ECMC13H3), (ECMD14H3). Enrolment Limits: 35. Breadth Requirement: Social & Behavioural Sciences.

MGEC92H3 Economics of Markets and Pricing
The course builds on MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) by exposing students to the economics of market structure and pricing. How and why certain market structures, such as monopoly, oligopoly, perfect competition, etc., arise. Attention will also be given to how market structure, firm size and performance and pricing relate. Role of government will be discussed. Note: This course may be applied to the C-level course requirements of the Minor Program in Economics for Management Studies. It may not, however, be used to meet the requirements of any program that leads to the B.B.A. or of the Major Program in Economics for Management Studies. Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3). Exclusion: MGEC02H3/(ECMC02H3), MGEC41H3/(ECMC41H3), (ECMC92H3), EC0200Y, EC0204Y, EC0206Y, EC0310Y. Breadth Requirement: Social & Behavioural Sciences.

MGEC93H3 International Economics
This course provides general understanding on issues related to open economy and studies theories in international trade and international finance. Topics include why countries trade, implications of various trade policies, theories of exchange rate determination, policy implications of different exchange rate regimes and other related topics. Note: This course may be applied to the C-level course requirements of the Minor Program in Economics for Management Studies. It may not, however, be used to meet the requirements of any program that leads to a B.B.A. or of the Major Program in Economics for Management Studies. Prerequisite: [MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)] and [MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)]. Exclusion: MGEC62H3/(ECMC62H3), (ECMC93H3), EC0230Y, EC0328Y. Breadth Requirement: Social & Behavioural Sciences.

MGED02H3 Advanced Microeconomic Theory
An upper level extension of the ideas studied in MGEC02H3/(ECMC02H3). The course offers a more sophisticated treatment of such topics as equilibrium, welfare economics, risk and uncertainty, strategic and repeated interactions, agency problems, and screening and signalling problems. Enrolment is limited to students registered in programs requiring this course. Prerequisite: MGEB12H3/(ECMB12H3) and MGEC02H3/(ECMC02H3). Exclusion: EC0326H, (ECMC13H3), (ECMD14H3). Enrolment Limits: 35. Breadth Requirement: Social & Behavioural Sciences.

MGED06H3 Advanced Macroeconomic Theory
This course will review recent developments in macroeconomics, including new classical and new Keynesian theories of inflation, unemployment and business cycles. Enrolment is limited to students registered in programs requiring this course. Prerequisite: MGEB12H3/(ECMB12H3) and MGEC06H3/(ECMC06H3). Exclusion: EC0325H, (ECMC14H3), (ECMD14H3). Enrolment Limits: 35. Breadth Requirement: Social & Behavioural Sciences.

MGED11H3 Theory and Practice of Regression Analysis
This is an advanced course building on MGEC11H3/(ECMC11H3). Students will master regression theory, hypothesis and diagnostic tests, and assessment of econometric results. Treatment of special statistical problems will be discussed. Intensive computer-based assignments will provide experience in estimating and interpreting regressions, preparing students for MGED50H3/(ECMD50H3). Enrolment is limited to students registered in programs requiring this course. Prerequisite: MGEB02H3/(ECMB02H3) and MGEB06H3/(ECMB06H3) and MGEB11H3/(ECMB11H3) and MGEB12H3/(ECMB12H3) and MGEC11H3/(ECMC11H3). Exclusion: EC0327Y, STA302H, (ECMC12H3), (ECMD10H3). Enrolment Limits: 30. Breadth Requirement: Social & Behavioural Sciences.

MGED43H3 Organization Strategies
Explores the issue of outsourcing, and broadly defines which activities should a firm do in "in-house" and which should it take outside? Using a combination of cases and economic analysis, it develops a framework for determining the "best" firm organization. Prerequisite: MGEB02H3/(ECMB02H3) and [(MGEC40H3/(ECMC40H3) or MGEC41H3/(ECMC41H3)]. Exclusion: (MGEC43H3), (ECMC43H3), RSM481H, (MGT481H). Enrolment Limits: 40. Breadth Requirement: Social & Behavioural Sciences.
MGED50H3 Workshop in Economic Research
This course introduces to students the techniques used by economists to define research problems and to do research. Students will choose a research problem, write a paper on their topic and present their ongoing work to the class.
Prerequisite: MGEB02H3/(ECMB02H3) and MGE06H3/(ECMB06H3) and MGE11H3/(ECMB11H3) and MGE12H3/(ECMB12H3) and MEC11H3/(ECMC11H3). This course should be taken among the last 5 credits of a twenty-credit degree.
Corequisite: MGED11H3/(ECMD10H3)
Exclusion: (ECMD50H3)

MGED63H3 Financial Crises: Causes, Consequences and Policy Implications
This course studies the causes, consequences and policy implications of recent financial crises. It studies key theoretical concepts of international finance such as exchange-rate regimes, currency boards, common currency, banking and currency crises. The course will describe and analyze several major episodes of financial crises, such as East Asia, Mexico and Russia in the 1990s, Argentina in the early 2000s, the U.S. and Greece in the late 2000s, and others in recent years.
Prerequisite: MGE06H3/(ECMC06H3)
Exclusion: (MGE63H3)/(ECMC63H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGED70H3 Financial Econometrics
Financial econometrics applies statistical techniques to analyze the financial data in order to solve problems in Finance. In doing so, this course will focus on four major topics: Forecasting returns, Modeling Univariate and Multivariate Volatility, High Frequency and market microstructure, Simulation Methods and the application to risk management.
Prerequisite: MGE11H3/(ECMC11H3) and [MGE72H3/(ECMC49H3) or MGFC10H3/(MGTC09H3)]
Exclusion: (ECMD70H3), ECO462H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

MGED90H3 Supervised Reading
These courses will normally be made available only to upper-level students whose interests are not covered by other courses and whose performance in Economics courses has been well above average. Not all faculty will be available for these courses in any single session.
Note: Students must obtain consent from the Supervisor of Studies, supervising instructor and the Department of Management before registering for this course.
Exclusion: (ECMD11H3)

MGED91H3 Supervised Reading
These courses will normally be made available only to upper-level students whose interests are not covered by other courses and whose performance in Economics courses has been well above average. Not all faculty will be available for these courses in any single session.
Note: Students must obtain consent from the Supervisor of Studies, supervising instructor and the Department of Management before registering for this course.
Exclusion: (ECMD12H3)

These courses may be counted as B-level credits in economics programs. (See the Geography section of this Calendar for full descriptions):

CITC18H3 Urban Transportation Policy Analysis
(GGRC04H3) Urban Residential Geography
GGRC27H3 Location and Spatial Development

These courses may count for B-level credit in economics programs. (See the International Development Studies section of this Calendar for full descriptions):

IDSB01H3 Political Economy of International Development
IDSC12H3 Economics of Small Enterprise and Microcredit
English

Faculty List

- M. Assif, B.A. (Hassan II), M.A., Ph.D. (Case Western Reserve), Associate Professor, Teaching Stream
- C. Bolus-Reichert, M.A., Ph.D. (Indiana), Associate Professor
- R.M. Brown, M.A., Ph.D. (Binghamton), Professor Emeritus
- M.C. Cuddy-Keane, M.A., Ph.D. (Toronto), Professor Emerita
- N. Dolan, M.A., Ph.D. (Harvard), Associate Professor
- A. DuBois, B.A. (Duke), Ph.D. (Harvard), Associate Professor
- D. Flynn, M.A., Ph.D. (Berkeley), Lecturer
- K. Gaston, A.B. (Princeton), M.Phil. (Cambridge), Ph.D. (Pennsylvania), Assistant Professor
- M.B. Goldman, M.A. (Victoria), Ph.D. (Toronto), Professor
- S.D. King, M.A., Ph.D. (Western), Associate Professor, Teaching Stream
- S. Lamb, M.A., Ph.D. (Toronto), Associate Professor
- K.R. Larson, M.Phil., M.St. (Oxford), Ph.D. (Toronto), Associate Professor
- G. Leonard, M.A., Ph.D. (Florida), Professor
- A. Maurice, M.A., Ph.D. (Cornell), Associate Professor
- A. Milne, M.A., Ph.D. (McMaster), Lecturer
- S. Nikkila, M.A. (Harvard), Ph.D. (Edinburgh), Lecturer
- M. Rubright, A.B. (Vassar), M.A. (Missouri-Columbia), Ph.D. (Michigan), Associate Professor
- S. Saljoughi, B.A. (Toronto), M.A. (Ryerson), M.A. (Ryerson), Ph.D. (Minnesota), Assistant Professor
- N. ten Kortenaar, M.A., Ph.D. (Toronto), Professor
- D. Tysdal, B.A. (Regina), M.A. (Acadia), M.A. (Toronto), Associate Professor, Teaching Stream
- K. Vernon, B.A., M.A. (Simon Fraser), B.Sc. (Queens), M.F.A. (UBC), Assistant Professor, Teaching Stream
- L. Wey, M.A., Ph.D. (Harvard), Lecturer
- A. Westoll, B.Sc. (Queens), M.F.A. (UBC), Assistant Professor, Teaching Stream

Chair: C. Bolus-Reichert (416-287-7162)

The discipline of English involves not only the study of the great works of literature but also training in responding to the complex modes of interpretation and communication that are invaluable in our increasingly media-saturated world. At UTSC, the curriculum offers courses in the English-language literatures of Britain, Canada, America, and other areas of the world. All courses place emphasis on close responsive reading, critical thinking, and clarity of expression.

A-level courses introduce students to the study of English at the university level. ENGA10H3 and ENGA11H3 are designed both for students wanting an introductory course in the Specialist, Major, or Minor Program in English and for students having a general interest in literature or the twentieth century. ENGB03H3, ENGB04H3, and ENGB05H3 are required for all English Programs. ENGB27H3 and ENGB28H3, also required, offer an overview of literary history that helps prepare students for C- and D-level courses.

C-level courses, as their prerequisites indicate, are designed to build upon previous work and presuppose some background in critical skills and some familiarity with the subject matter.

D-level courses provide opportunities for more sophisticated study and require some independent work on the part of the student. These courses are generally restricted in enrolment and may involve the presentation of seminars.

Students are advised to check the prerequisites for C- and D-level courses when planning their individual programs, and to consult with the Program Supervisor before taking courses on other campuses.

Students planning to pursue graduate studies in English are advised to consult the Program Supervisor about appropriate programs of study.

Guidelines for 1st year course selection

First-year students often take ENGA10H3 or ENGA11H3 (or both) as an introduction to university-level English studies. Students intending to complete the Specialist or Major Program in English should plan to take at least two of ENGB03H3, ENGB04H3 and ENGB05H3 early in their university career. They may, if they so choose, begin satisfying these B-level English requirements in their first year. ENGB27H3 and ENGB28H3, also required, offer an overview of literary history that helps prepare students for C- and D-level courses.
Co-operative Programs

English Program Supervisor: A. Maurice (416-287-7180) Email: english-program-supervisor@utsc.utoronto.ca.
Co-op Contact: askcoop@utsc.utoronto.ca.

For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.

Eligible Programs of Study for Co-op

Students enrolled in either the Specialist or Major Program in English are eligible for inclusion in the Co-op Program as outlined in the Humanities and Social Sciences Co-operative section of the Calendar. Co-op students will follow the Specialist or Major Program requirements as outlined above, and will complete 2 Co-op work terms, each being 4 months in length, in addition to their academic requirements. Students in the Major (Co-op) Program must complete a second Major in order to meet program requirements.

Work Terms

The work terms are an integral part of the co-op curriculum. To be eligible for their first work term, students must be in good standing in their chosen program (with a minimum 2.5 Cumulative Grade Point Average) and have completed at least 9.0 full credits, including ENGB03H3, ENGB04H3, and ENGB05H3 as well as all COPD01H3 and COPD03H3 Arts & Science Co-op Work Preparation activities. To be eligible for their second work term, students must have received a satisfactory evaluation of their performance and work term report for their first placement.

Students are individually responsible for ensuring that they have correctly completed all program and degree requirements for graduation.

English Programs

SPECIALIST PROGRAM IN ENGLISH (ARTS)

Program Supervisor: Alice Maurice (416-287-7180).
Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements

12.0 credits in English are required of which at least 3.0 must be at the C-level and 1.5 at the D-level. They should be selected as follows:

1. ENGB03H3 Critical Thinking About Narrative
2. ENGB04H3 Critical Thinking About Poetry
3. ENGB05H3 Critical Writing about Literature
4. ENGB27H3 Charting Literary History I
5. ENGB28H3 Charting Literary History II
6. 2.0 credits from courses whose content is pre-1900
7. 0.5 credits in Canadian literature
8. 7.0 additional credits in English

Note: Students may count no more than one of the following courses towards the Specialist requirements:
ENGB35H3 Children's Literature
(ENGB36H3) Detective Fiction
(ENGB41H3) Science Fiction

Students may count no more than one full credit of D-level independent study [ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3)] towards an English program.

The following courses do not count towards any English programs: ENG100H, ENG185Y.

MAJOR PROGRAM IN ENGLISH (ARTS)

Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements

7.5 credits in English are required of which at least 2.0 must be at the C- or D-level. They should be selected as follows:

1. ENGB03H3 Critical Thinking About Narrative
2. ENGB04H3 Critical Thinking About Poetry
3. ENGB05H3 Critical Writing about Literature
4. ENGB27H3 Charting Literary History I
5. ENGB28H3 Charting Literary History II
6. 1.0 credit from courses whose content is pre-1900
7. 0.5 credit at the D-level in ENG courses
8. 3.5 additional credits in English

Notes:
1. Students may count no more than one of the following courses towards the Major requirements: ENGB35H3 Children's Literature, ENGB36H3 Detective Fiction, ENGB41H3 Science Fiction.
2. Students may count no more than one full credit of D-level independent study [ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3)] towards an English program.
3. The following courses do not count towards any English programs: ENG100H, ENG185Y.

MINOR PROGRAM IN ENGLISH LITERATURE (ARTS)


Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements:
4.0 credits in English are required. They should be selected as follows:
1. ENGB03H3 Critical Thinking About Narrative
2. ENGB04H3 Critical Thinking About Poetry
3. ENGB05H3 Critical Writing about Literature
4. 1.0 credits at the C-level
5. 1.5 additional credits in English.

Students may count no more than one full credit of D-level independent study [ENGD26Y3, ENGD27Y3, ENGD28Y3, (ENGD97H3), ENGD98Y3, (ENGD99H3)] towards an English program.

The following courses do not count towards any English programs: ENG100H, ENG185Y.

MINOR PROGRAM IN CREATIVE WRITING (ARTS)

Program Supervisor: D. Tysdal (416-287-7161) Email: dtysdal@utsc.utoronto.ca

Program Requirements:
Students must complete 4.0 credits as follows. A maximum of 1.0 credit in creative writing courses may be taken at another campus.
1. 1.5 credits:
   ENGB03H3 Critical Thinking about Narrative
   ENGB04H3 Critical Thinking about Poetry
   [ENGB60H3 Creative Writing: Poetry I or ENGB61H3 Creative Writing: Fiction I]
2. 2.5 credits to be selected from:
   ENGB06H3 Creative Writing: Screenwriting
   ENGB05H3 Creative Writing: Poetry and New Media
   ENGB06H3 Creative Writing: Writing for Comics
   ENGB08H3 Special Topics in Creative Writing I
   ENGB08H3 Creative Writing: Poetry II
   ENGB08H3 Creative Writing: Fiction II
   ENGB08H3 Creative Writing: Non-Fiction II
   ENGB22H3 Special Topics in Creative Writing II
   ENGB26Y3 Independent Studies in Creative Writing: Poetry
   ENGB27Y3 Independent Studies in Creative Writing: Prose
   ENGB28Y3 Independent Studies in Creative Writing: Special Topics

MINOR PROGRAM IN LITERATURE AND FILM STUDIES (ARTS)


Email: english-program-supervisor@utsc.utoronto.ca

Program Requirements:
4.0 full credits in English are required
1. 1.5 credit as follows:
   ENGB70H3 Introduction to Cinema
   ENGB75H3 Cinema and Modernity I
   ENGB76H3 Cinema and Modernity II

2. 0.5 credits as follows:
   ENGA10H3 Introduction to Twentieth-Century Literature and Film: 1890 to World War II
   or
   ENGA11H3 Introduction to Twentieth-Century Literature and Film: 1945 to Today

3. 1.0 credits at the C-or D-level, from the following:
   ENGC56H3 Literature and Media: From Page to Screen
   ENGC76H3 The Body in Literature and Film
   ENGC78H3 Dystopian Visions in Fiction and Film
   ENGC82H3 Cinema Studies: Themes and Theories
   ENGC83H3 Studies in World Cinema
   ENGD52H3 Cinema: The Auteur Theory
   ENGD62H3 Topics in Postcolonial Literature and Film
   ENGD91H3 Avant-Garde Cinema
   ENGD93H3 Theoretical Approaches to Cinema
   ENGD94H3 Stranger than Fiction: The Documentary Film
   ENGD96H3 Iranian Cinema

4. 1.0 additional credits in English

Note: Film courses selected from other departments and discipline will be approved for the Minor in Literature and Film Studies on a case-by-case basis.

English Courses

ENGA10H3 Introduction to Twentieth-Century Literature and Film: 1890 to World War II
An exploration of how literature reflects the artistic and cultural concerns that shaped the first part of the twentieth century. This course will introduce students to university-level critical reading and interpretation, by analysing the writing of early twentieth-century men and women.
Exclusion: ENG140Y
Breadth Requirement: Arts, Literature & Language

ENGA11H3 Introduction to Twentieth-Century Literature and Film: 1945 to Today
An exploration of how literature reflects the artistic and cultural concerns that shaped the world after the Second World War. Building on ENGA10H3, this course will introduce students to university-level critical reading and interpretation, by analysing the writing of late twentieth-century men and women from a range of backgrounds and nationalities.
Exclusion: ENG140Y
Breadth Requirement: Arts, Literature & Language

ENGB02H3 Effective Writing in the Sciences
This course will provide science students with practical strategies, detailed instructions, and cumulative assignments to help them hone their ability to write clear, coherent, well-reasoned prose for academic and professional purposes. Topics will include scientific journal article formats and standards, peer-review, and rhetorical analysis (of both scientific and lay-science documents).
Exclusion: PCL285H
Enrolment Limits: 25 per section
Breadth Requirement: Arts, Literature & Language

ENGB03H3 Critical Thinking About Narrative
An introduction to the literary analysis of narrative. This course will study closely a small number of narratives and narrative genres from different periods in order to develop the critical skills to analyse narratives.
Exclusion: ENG110Y
Breadth Requirement: Arts, Literature & Language

ENGB04H3 Critical Thinking About Poetry
An introduction to the literary analysis of poetry. This course will study closely poems and poetic forms from different periods in order to develop the critical skills to analyse poetry.
Exclusion: ENG201Y
Breadth Requirement: Arts, Literature & Language

ENGB05H3 Critical Writing about Literature
Intensive training in critical writing about literature. Students learn essay-writing skills (explication; organization and argumentation; research techniques; bibliographies and MLA-style citation) necessary for the study of English at the university level through group workshops, multiple short papers, and a major research-based paper. This is not a grammar course; students are expected to enter with solid English literacy skills.
Exclusion: (ENGB01H3)
Enrolment Limits: 25 per section
Breadth Requirement: Arts, Literature & Language

ENGB06H3 Canadian Literature I: Imagining the Nation
A study of Canadian literature from pre-contact to 1920. This course explores the literatures of the ‘contact zone,’ from Indigenous oral and textual literature, to European journals of exploration and discovery, to the literature of pioneer settlers, to the writing of the post-Confederation period.
Pre-1900 course
Exclusion: ENG252Y
Breadth Requirement: Arts, Literature & Language

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ENGB06H3 Canadian Literature II: Re-imagining the Nation
A continuation of ENGB06H3 introducing students to texts written since 1920 to the present day. Focusing on the development of Canada as an imagined national community, this course explores the challenges of imagining an ethical national community in the context of Canada's ongoing colonial legacy: its multiculturalism; Indigenous and Quebec nationalisms; and recent diasporic and transnational reimagining of the nation and national belonging.
Exclusion: ENG252Y
Breadth Requirement: Arts, Literature & Language

ENGB08H3 American Literature to 1860
An examination of Early American literature in historical context from colonization to the Civil War. This introductory survey places a wide variety of genres including conquest and captivity narratives, theological tracts, sermons, and diaries, as well as classic novels and poems in relation to the multiple subcultures of the period.
Pre-1900 course
Exclusion: ENG250Y
Breadth Requirement: Arts, Literature & Language

ENGB09H3 American Literature from the Civil War to the Present
An introductory survey of major novels, short fiction, poetry, and drama produced in the aftermath of the American Civil War. Exploring texts ranging from The Adventures of Huckleberry Finn to Rita Dove's Thomas and Beulah, this course will consider themes of immigration, ethnicity, modernization, individualism, class, and community.
Prerequisite: ENGB08H3
Exclusion: ENG250Y
Breadth Requirement: Arts, Literature & Language

ENGB12H3 Life Writing
Life-writing, whether formal biography, chatty memoir, postmodern biotext, or published personal journal, is popular with writers and readers alike. This course introduces students to life-writing as a literary genre and explores major issues such as life-writing and fiction, life-writing and history, the contract between writer and reader, and gender and life-writing.
Exclusion: ENG232H
Breadth Requirement: Arts, Literature & Language

ENGB13H3 Life Writing
A study of fiction, drama, and poetry from the West Indies. The course will examine the relation of standard English to the spoken language; the problem of narrating a history of slavery and colonialism; the issues of race, gender, and nation; and the task of making West Indian literary forms.
Exclusion: ENG264H, ENG270Y, NEW223Y, (ENG253Y)
Breadth Requirement: Arts, Literature & Language

ENGB17H3 Contemporary Literature from the Caribbean
A study of literature in English from South Asia, with emphasis on fiction from India. The course will examine the relation of English-language writing to indigenous South Asian traditions, the problem of narrating a history of colonialism and Partition, and the task of transforming the traditional novel for the South Asian context.
Exclusion: ENG270Y, (ENG253Y)
Breadth Requirement: Arts, Literature & Language

ENGB19H3 Contemporary Literature from South Asia
A study of literature in English from South Asia, with emphasis on fiction from India. The course will examine the relation of English-language writing to indigenous South Asian traditions, the problem of narrating a history of colonialism and Partition, and the task of transforming the traditional novel for the South Asian context.
Exclusion: ENG270Y, (ENG253Y)
Breadth Requirement: Arts, Literature & Language

ENGB25H3 The Canadian Short Story
A study of the Canadian short story. This course traces the development of the Canadian short story, examining narrative techniques, thematic concerns, and innovations that captivate writers and readers alike.
Exclusion: ENG215H
Breadth Requirement: Arts, Literature & Language

ENGB27H3 Charting Literary History I
An introduction to the historical and cultural developments that have shaped the study of literature in English before 1700. Focusing on the medieval, early modern, and Restoration periods, this course will examine the notions of literary history and the literary “canon” and explore how contemporary critical approaches impact our readings of literature in English in specific historical and cultural settings.
Pre-1900 course
Exclusion: ENG202Y
Enrolment Limits: 175
Breadth Requirement: Arts, Literature & Language

ENGB28H3 Charting Literary History II
An introduction to the historical and cultural developments that have impacted the study of literature in English from 1700 to our contemporary moment. This course will familiarize students with the eighteenth century, Romanticism, the Victorian period, Modernism, and Postmodernism, and will attend to the significance of postcolonial and world literatures in shaping the notions of literary history and the literary “canon.”
Pre-1900 course
Recommended Preparation: ENGB27H3
Enrolment Limits: 175
Breadth Requirement: Arts, Literature & Language

ENGB30H3 Classical Myth and Literature
The goal of this course is to familiarize students with Greek and Latin mythology. Readings will include classical materials as well as imparatnt literary texts in English that retell classical myths.
Pre-1900 Course
Exclusion: (ENGC58H3), (ENGC60H3), (ENGC61H3)
Breadth Requirement: Arts, Literature & Language

ENGB31H3 The Romance: In Quest of the Marvelous
A study of the romance a genre whose episodic tale of marvellous adventures and questing heroes have been both criticized and celebrated. This course looks at the range of a form stretching from Malory and Spenser through Scott and Tennyson to contemporary forms such as fantasy, science fiction, postmodern romance, and the romance novel.
Pre-1900 course
Exclusion: (ENGC31H3)
Breadth Requirement: Arts, Literature & Language
ENGB32H3 Shakespeare in Context I
An introduction to the poetry and plays of William Shakespeare, this course situates his works in the literary, social and political contexts of early modern England. The main emphasis will be on close readings of Shakespeare's sonnets and plays, to be supplemented by classical, medieval, and renaissance prose and poetry upon which Shakespeare drew.
Pre-1900 course.
Exclusion: ENG220Y, (ENG10H3)
Breadth Requirement: Arts, Literature & Language

ENGB33H3 Shakespeare in Context II
A continuation of ENGB32H3, this course introduces students to selected dramatic comedies, tragedies and romances and situates Shakespeare's works in the literary, social and political contexts of early modern England. Our readings will be supplemented by studies of Shakespeare's sources and influences, short theoretical writings, and film excerpts.
Pre-1900 course.
Exclusion: (ENG10H3), ENG220Y
Recommended Preparation: ENGB32H3
Breadth Requirement: Arts, Literature & Language

ENGB34H3 The Short Story
An introduction to the short story as a literary form. This course examines the origins and recent development of the short story, its special appeal for writers and readers, and the particular effects it is able to produce.
Exclusion: ENG213H
Breadth Requirement: Arts, Literature & Language

ENGB35H3 Children's Literature
An introduction to children's literature. This course will locate children's literature within the history of social attitudes to children and in terms of such topics as authorial creativity, race, class, gender, and nationhood.
Exclusion: ENG234H
Breadth Requirement: Arts, Literature & Language

ENGB37H3 Popular Literature and Mass Culture
This course considers the creation, marketing, and consumption of popular film and fiction. Genres studied might include bestsellers; detective fiction; mysteries, romance, and horror; fantasy and science fiction; "chick lit"; popular song; pulp fiction and fanzines.
Breadth Requirement: Arts, Literature & Language

ENGB38H3 The Graphic Novel
A study of extended narratives in the comic book form. This course combines formal analysis of narrative artwork with an interrogation of social, political, and cultural issues in this popular literary form. Works to be studied may include graphic novels, comic book series, and comic book short story or poetry collections.
Exclusion: ENG235H, (ENGCS7H3)
Breadth Requirement: Arts, Literature & Language

ENGB45H3 Victorian Literature
An introduction to the poetry and prose of the Victorian period, 1837-1901. Representative authors will be studied in the context of a culture in transition, in which questions about democracy, the rights of women, national identity, imperialism, science and religion, and the place of the arts in everyday life were prominent.
Pre-1900 course
Breadth Requirement: Arts, Literature & Language

ENGB50H3 Women and Literature: Forging a Tradition
An examination of the development of a tradition of women's writing. This course explores the legacy and impact of writers such as Christine de Pizan, Julian of Norwich, Mary Wollstonecraft, Anne Bradstreet, Margaret Cavendish, Jane Austen, Mary Shelley, Emily Dickinson, and Margaret Fuller, and considers how writing by women has challenged and continues to transform the English literary canon.
Pre-1900 course
Exclusion: (ENG233Y)
Breadth Requirement: Arts, Literature & Language

ENGB52H3 Literature and Science
An exploration of the many intersections between the worlds of literature and science. The focus will be on classic and contemporary works of fiction, non-fiction, poetry and drama that have illuminated, borrowed from or been inspired by the major discoveries and growing cultural significance of the scientific enterprise.
Enrolment Limits: 85
Breadth Requirement: Arts, Literature & Language

ENGB60H3 Creative Writing: Poetry I
An introduction to the writing of poetry. This course will provide an introduction to the writing of poetry through workshop sessions. Admission by portfolio.
Exclusion: (ENG369Y)
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language
NOTE: Admission by portfolio. The portfolio should contain 5-15 pages of poetry. Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).

ENGB61H3 Creative Writing: Fiction I
An introduction to the writing of fiction. This course will provide an introduction to the writing of short fiction through workshop sessions. Admission by portfolio.
Exclusion: (ENG369Y)
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language
NOTE: Admission by portfolio. The portfolio should contain 10-20 pages of fiction (short stories or a novel excerpt). Please email your portfolio to awestoll@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).

ENGB63H3 Creative Non-Fiction I
An introduction to the craft of creative non-fiction. Through in-depth reading, discussion of exceptional texts and constructive workshop sessions, students will explore the many key elements of great true stories and produce several original works of creative non-fiction.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language
NOTE: Admission by portfolio. The portfolio should contain 5-10 pages of your strongest fiction or non-fiction writing. Please email your portfolio to awestoll@utsc.utoronto.ca no later than the first Tuesday of August (for Fall course offering) or the first Monday of October (for Winter course offering).
ENGB70H3 Introduction to Cinema
An introduction to the critical study of cinema, including films from a broad range of genres, countries, and eras, as well as readings representing the major critical approaches to cinema that have developed over the past century.
Exclusion: INI115Y
Breadth Requirement: Arts, Literature & Language

ENGB75H3 Cinema & Modernity I
An investigation of film genres such as melodrama, film noir, and the western from 1895 to the present alongside examples of twentieth-century prose and poetry. We will look at the creation of an ideological space and of new mythologies that helped organize the experience of modern life.
Breadth Requirement: Arts, Literature & Language

ENGB76H3 Cinema & Modernity II
An investigation of film genres such as romance, gothic, and science fiction from 1895 to the present alongside examples of twentieth-century prose and poetry. We will look at the way cinema developed and created new mythologies that helped people organize the experience of modern life.
Exclusion: (ENGB238H)
Breadth Requirement: Arts, Literature & Language

ENGC02H3 Major Canadian Authors
An examination of three or more Canadian writers. This course will draw together selected major writers of Canadian fiction or of other forms. Topics vary from year to year and might include a focused study of major women writers; major racialized and ethnicized writers such as African-Canadian or Indigenous writers; major writers of a particular regional or urban location or of a specific literary period.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB06H3 or ENGB07H3]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC03H3 Topics in Canadian Fiction
An analysis of Canadian fiction with regard to the problems of representation. Topics considered may include how Canadian fiction writers have responded to and documented the local; social rupture and historical trauma; and the problematics of representation for marginalized communities. Discussion will focus on the ways poetic form achieves emphasis on the poetry of particular time-periods, regions, and identities.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB06H3 or ENGB07H3]
Exclusion: ENGC3S3Y, (ENG216Y)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC04H3 Creative Writing: Screenwriting
An introduction to the craft of screenwriting undertaken through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 10-20 pages of a complete screenplay or a script in progress. Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB61H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGC05H3 Creative Writing: Poetry and New Media
A creative investigation into the intersections between poetry and new media (from wikis to cell phones to social media) undertaken through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 5-10 pages of your best poetry. Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB61H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGC06H3 Creative Writing: Writing for Comics
An introduction to the writing of comics undertaken through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 10-20 pages of a complete script or a script in progress. Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB61H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGC07H3 Canadian Drama
A study of major Canadian playwrights with an emphasis on the creation of a national theatre, distinctive themes that emerge, and their relation to regional and national concerns. This course explores the perspectives of Québécois, feminist, Native, queer, ethnic, and Black playwrights who have shaped Canadian theatre.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)]; or ENGB06H3 or ENGB07H3; Alternative prerequisites - [VPDB10H3 & VPDB11H3]
Exclusion: ENGC3S2H, (ENG223H)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC08H3 Special Topics in Creative Writing I
This multi-genre creative writing course, designed around a specific theme or topic, will encourage interdisciplinary practice, experiential adventuring, and rigorous theoretical reflection through readings, exercises, field trips, projects, etc. Admission by portfolio. The portfolio should contain 10-20 pages of your best writing (any genre). Please email your portfolio to dtysdal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB60H3 or ENGB61H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGC09H3 Canadian Poetry
A study of contemporary Canadian poetry in English, with a changing emphasis on the poetry of particular time-periods, regions, and communities. Discussion will focus on the ways poetic form achieves meaning and opens up new strategies for thinking critically about the important social and political issues of our world.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or ENGB06H3 or ENGB07H3
Exclusion: ENGC3S4Y
ENGC10H3 Studies in Shakespeare
A study of the plays of Shakespeare. An in-depth study of select plays from Shakespeare's dramatic corpus combined with an introduction to the critical debates within Shakespeare studies. Students will gain a richer understanding of Shakespeare's texts and their critical reception.
Pre-1900 course
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3) or (ENGB10H3)] and [ENGB32H3 or ENGB33H3]
Exclusion: ENG336H
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC11H3 Poetry and Popular Culture
Poetry is often seen as distant from daily life. We will instead see how poetry is crucial in popular culture, which in turn impacts poetry. We will read such popular poets as Ginsberg and Plath, look at poetry in film, and consider song lyrics as a form of popular poetry.
Exclusion: (ENGA18H3)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC12H3 Individualism and Community in American Literature
An exploration of the tension in American literature between two conflicting concepts of self. We will examine the influence on American literature of the opposition between an abstract, "rights-based," liberal-individualist conception of the self and a more traditional, communitarian sense of the self as determined by inherited regional, familial, and social bonds.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB08H3 & ENGB09H3]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC13H3 Ethnic Traditions in American Literature
A survey of the literature of Native Peoples, Africans, Irish, Jews, Italians, Latinos, and East Asians in the U.S. focusing on one or two groups each term. We will look at how writers of each group register the affective costs of the transition from "old-world" communalism to "new-world" individualism.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB08H3 & ENGB09H3].
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC15H3 Concepts in Literary Criticism
A study of selected topics in literary criticism. Schools of criticism and critical methodologies such as New Criticism, structuralism, poststructuralism, Marxism, psychoanalysis, gender and sexuality studies, New Historicism, and postcolonialism will be covered, both to give students a roughly century-wide survey of the field and to provide them with a range of models applicable to their own critical work as writers and thinkers. Recommended for students planning to pursue graduate study in English literature.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG280H, (ENG267H)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC16H3 The Bible and Literature I
Literary analysis of the Hebrew Bible (Christian Old Testament) and its profound influence on literature. This course considers both the literary nature of and the influence on literature of such narratives as the fall of Adam and Eve, Noah's flood, Abraham's binding of Isaac, and the story of Moses, The Song of Solomon, Job, Jonah, Jeremiah.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: (ENG42H3), (ENG200Y)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC17H3 The Bible and Literature II
Literary analysis of the New Testament's narratives and other forms as well as consideration of selected literary texts and works of visual art that the New Testament has influenced. Topics to be discussed include repetition and difference in the four canonical Gospels, Jesus and the prophetic tradition, Paul and epistolary rhetoric, and the apocalyptic and political discourses of the Book of Revelation; some apocryphal works, such as the Infancy Gospel of Thomas, may also be discussed.
Pre-1900 course
Prerequisite: ENGC16H3 or (ENGB42H3)
Exclusion: (ENG43H3), (ENG200Y)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC21H3 The Victorian Novel to 1860
A study of major works of Victorian fiction, 1830-1860. This course focuses on the development of the realist novel in its social context. Authors studied might include Charles Dickens, Wilkie Collins, George MacDonald, Thomas Hardy, Robert Louis Stevenson, H.G. Wells, Joseph Conrad, or Rudyard Kipling.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG324Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC22H3 The Victorian Novel after 1860
A study of major works of Victorian fiction, 1860-1901. This course examines the emergence of the sensation novel, fantasy and science fiction, and high Victorian realism. Authors studied might include George Eliot, Wilkie Collins, George MacDonald, Thomas Hardy, Robert Louis Stevenson, H.G. Wells, Joseph Conrad, or Rudyard Kipling.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG324Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC23H3 Fantasy and the Fantastic in Literature and the Other Arts
A study of fantasy and the fantastic from 1800 to the present. Students will consider various theories of the fantastic in order to chart the complex genealogy of modern fantasy across a wide array of literary genres (fairy tales, poems, short stories, romances, and novels) and visual arts (painting, architecture, comics, and film).
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG239H
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language
ENGC26H3 Drama: Tragedy
An exploration of major dramatic tragedies in the classic and English tradition. European philosophers and literary critics since Aristotle have sought to understand and define the genre of tragedy, one of the oldest literary forms in existence. In this course, we will read representative works of dramatic tragedy and investigate how tragedy as a genre has evolved over the centuries.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] Alternative pre/co-requisites: VPDB10H3 & VPDB11H3
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC27H3 Drama: Comedy
An historical exploration of comedy as a major form of dramatic expression. Comedy, like its more august counterparty tragedy, has been subjected to centuries of theoretical deliberation about its form and function. In this course, we will read representative works of dramatic comedy and consider how different ages have developed their own unique forms of comedy.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] Alternative prerequisites: VPDB10H3 & VPDB11H3
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC29H3 Chaucer
Selections from The Canterbury Tales and other works by the greatest English writer before Shakespeare. In studying Chaucer's medieval masterpiece, students will encounter a variety of tales and tellers, with subject matter that ranges from broad and bawdy humour through subtle social satire to moral fable.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG300Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC30H3 Studies in Medieval Literature
A study of selected medieval texts by one or more authors.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG311H
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC33H3 Deceit, Dissent, and the English Civil Wars, 1603-1660
A study of the poetry, prose, and drama written in England between the death of Queen Elizabeth in 1603 and the Restoration of the monarchy in 1660. This course will examine the innovative literature of these politically tumultuous years alongside debates concerning personal and political sovereignty, religion, censorship, ethnicity, courtship and marriage, and women's authorship.
Pre-1900 course
Prerequisite: ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG304Y
Recommended Preparation: ENGB32H3 or ENGB33H3
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC34H3 Early Modern Women and Literature, 1500-1700
A focused exploration of women's writing in the early modern period. This course considers the variety of texts produced by women (including closet drama, religious and secular poetry, diaries, letters, prose romance, translations, polemical tracts, and confessions), the contexts that shaped those writings, and the theoretical questions with which they engage.
Pre-1900 course
Prerequisite: ENGB03H3 or ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Recommended Preparation: [ENGB32H3 or ENGB33H3] and [ENG300Y or (ENGC32H3) or ENGC33H3]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC35H3 Imagined Communities in Early Modern England, 1500-1700
A study of the real and imagined multiculturalism of early modern English life. How did English encounters and exchanges with people, products, languages, and material culture from around the globe redefine ideas of national, ethnic, and racial community? In exploring this question, we will consider drama, poetry, travel journals, autobiography, letters, cookbooks, costume books, and maps.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Recommended Preparation: [ENGB32H3 or ENGB33H3] & [ENG300Y or (ENGC32H3) or ENGC33H3]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC36H3 Literature and Culture, 1660-1750
Studies in literature and literary culture during a turbulent era that was marked by extraordinary cultural ferment and literary experimentation. During this period satire and polemic flourished, Milton wrote his great epic, Behn her brilliant comedies, Swift his bitter attacks, and Pope his technically balanced but often viciously biased poetry.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [either ENGB05H3 or (ENGB01H3)]
Exclusion: ENG305H
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC37H3 Literature and Culture, 1750-1830
An exploration of literature and literary culture during the end of the eighteenth and beginning of the nineteenth centuries. We will trace the development of a consciously national culture, and birth of the concepts of high, middle, and low cultures. Authors may include Johnson, Boswell, Burney, Sheridan, Yearsley, Blake, and Wordsworth.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG300Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC38H3 Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1750
An examination of generic experimentation that began during the English Civil Wars and led to the novel. We will address such authors as Aphra Behn and Daniel Defoe, alongside news, ballads, and scandal sheets; and look at the book trade, censorship, and the growth of the popular press.
Pre-1900 course
ENGC39H3 The Early Novel in Context, 1740-1830
A contextual study of the first fictions that contemporaries recognized as being the novel. We will examine the novel in the context of its readers; of neighbouring genres such as letters, non-fiction travel writing, conduct manuals; and of culture more generally. Authors might include Richardson, Fielding, Sterne, Burney, Austen and others.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG332Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC42H3 Romanticism
A study of the Romantic Movement in European literature, 1750-1850. This course investigates the cultural and historical origins of the Romantic Movement, its complex definitions and varieties of expression, and the responses it provoked in the wider culture. Examination of representative authors such as Goethe, Rousseau, Wollstonecraft, Wordsworth, Coleridge, Blake, P. B. Shelley, Keats, Byron and M. Shelley will be combined with study of the philosophical and historical backgrounds of Romanticism.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG332Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC43H3 Nineteenth-Century Literature and Contemporary Culture
An investigation of how nineteenth-century literature is translated into our contemporary world through art forms like music, architecture, film, television, graphic novels, or online and social media. What is it that makes us keep returning to the past, and how does each adaptation remake the original into something new and relevant?
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Exclusion: ENG308Y
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC44H3 Self and Other in Literature and Film
A study of the relation between self and other in narrative fiction. This course will examine three approaches to the self-other relation: the moral relation, the epistemological relation, and the functional relation. Examples will be chosen to reflect engagements with gendered others, with historical others, with generational others, with cultural and national others.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC47H3 Modernist Poetry
A study of poetry written roughly between the World Wars. Poets from several nations may be considered. Topics to be treated include Modernist difficulty, formal experimentation, and the politics of verse. Literary traditions from which Modernist poets drew will be discussed, as will the influence of Modernism on postmodern writing.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC48H3 Satire
An investigation of the literatures and theories of the unthinkable, the reformist, the iconoclastic, and the provocative. Satire can be conservative or subversive, corrective or anarchic. This course will address a range of satire and its theories. Writers may range from Juvenal, Horace, Lucian, Erasmus, Donne, Jonson, Rochester, Dryden, Swift, Pope, Gay, Haywood, and Behn to Pynchon, Nabokov and Atwood.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: (ENGD67H3)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC50H3 Studies in Contemporary American Fiction
Developments in American fiction from the end of the 1950s to the present. A study of fiction from the period that produced James Baldwin, Saul Bellow, Philip Roth, John Updike, Norman Mailer, Ann Beatty, Raymond Carver, Don DeLillo, Toni Morrison, Maxine Hong Kingston, and Leslie Marmon Silko. The course may be organized around themes or movements.
Prerequisite: [ENGB03H3 & ENGB04H3 & one of ENGB05H3 or (ENGB01H3)] or [ENGB08H3 & ENGB09H3]
Exclusion: ENG365H, (ENG361H)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC51H3 Contemporary Arab Women Writers
A study of Arab women writers from the late nineteenth century to the present. Their novels, short stories, essays, poems, and memoirs invite us to rethink western perceptions of Arab women; therefore, issues of gender, religion, class, nationalism, and colonialism will be examined from Arab women's perspectives, from both the Arab world and North America.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC54H3 Gender and Genre
An analysis of how gender and the content and structure of poetry, prose, and drama inform each other. Taking as its starting point Virginia Woolf's claim that the novel was the genre most accessible to women because it was not entirely formed, this course will consider how women writers across historical periods and cultural contexts have contributed to specific literary genres and how a consideration of gender impacts our interpretation of literary texts.
Exclusion: (ENGB51H3)
Breadth Requirement: Arts, Literature & Language
ENGC56H3  Literature and Media: From Page to Screen
An exploration of the relationship between written literature and film and television. What happens when literature influences film and vice versa, and when literary works are recast as visual media (including the effects of rewriting, reproduction, adaptation, serialization and sequelization)?
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC59H3  Geography and Regionalism in Literature
Analysis of space and place in literature. This course studies representations of space in literature - whether geographical, regional, or topographical - that offer conceptual alternatives to the nation, state, or tribe. Geographical or regional focus may change depending on instructor.
Prerequisite: [ENGB03H3 and ENGB04H3 and (one of ENGB05H3 or (ENGB01H3))] or [SOCB58H3; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC69H3  Gothic Literature
A study of the Gothic tradition in literature since 1760. Drawing on texts such as Horace Walpole’s The Castle of Otranto, Jane Austen’s Northanger Abbey, Henry James’ The Turn of the Screw, and Anne Rice’s Interview with the Vampire, this course will consider how the notion of the “Gothic” has developed across historical periods and how Gothic texts represent the supernatural, the uncanny, and the nightmares of the unconscious mind.
Pre-1900 course
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC70H3  The Immigrant Experience in Literature to 1980
An examination of twentieth-century literature, especially fiction, written out of the experience of people who leave one society to come to another already made by others. We will compare the literatures of several ethnic communities in at least three nations, the United States, Britain, and Canada.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC71H3  The Immigrant Experience in Literature since 1980
A continuation of ENGC70H3, focusing on texts written since 1980.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] & ENGC70H3
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC72H3  Contemporary Literature from Africa
A study of fiction, drama, and poetry from English-speaking Africa. The course will examine the relation of English-language writing to indigenous languages, to orality, and to audience, as well as the issues of creating art in a world of suffering and of de-colonizing the narrative of history.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)] or AFSA01H3
Exclusion: ENG278Y
Enrolment Limits: 45

ENGC76H3  The Body in Literature and Film
An interdisciplinary exploration of the body in art, film, photography, narrative and popular culture. This course will consider how bodies are written or visualized as “feminine” or “masculine”, as heroic, as representing normality or perversity, beauty or monstrosity, legitimacy or illegitimacy, nature or culture.
Corequisite: Two full credits at the B-level or above from ENG, WST, VPA, VPH, and/or VPS.
Exclusion: (VPAC47H3), (VPHC47H3)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC78H3  Dystopian Visions in Fiction and Film
An exploration of negative utopias and post-apocalyptic worlds. The course will draw from novels such as 1984, Brave New World, Clockwork Orange, and Oryx and Crake, and films such as Metropolis, Mad Max, Brazil, and The Matrix. Why do we find stories about the world gone wrong so compelling?
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC80H3  Modernist Narrative
Advanced study of a crucial period for the development of new forms of narrative and the beginnings of formal narrative theory, in the context of accelerating modernity.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC82H3  Cinema Studies: Themes and Theories
A variable theme course that will feature different theoretical approaches to Cinema: feminist, Marxist, psychoanalytic, postcolonial, and semiotic. Thematic clusters include "Madness in Cinema," and "Films on Films."
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC83H3  Studies in World Cinema
A study of Non-Western films. This course analyzes a selection of African, Asian, and Middle Eastern films both on their own terms and against the backdrop of issues of colonialism and globalization.
Prerequisite: [ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)] or [SOCB58H3; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

ENGC86H3  Creative Writing: Poetry II
An intensive study of the writing of poetry through a selected theme, topic, or author. The course will undertake its study through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 5-10 pages of your best poetry. Please email your portfolio to dysseyal@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB06H3
Recommended Preparation: Students should have developed a small
body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**ENGC87H3 Creative Writing: Fiction II**
An intensive study of the writing of fiction through a selected theme, topic, or author. The course will undertake its study through discussions, readings, and workshop sessions. Admission by portfolio. The portfolio should contain 10-15 pages of your best fiction. Please email your portfolio to awestoll@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGB61H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**ENGC88H3 Creative Non-Fiction II**
An advanced study of the craft of creative non-fiction. Through in-depth discussion, close reading of exceptional texts and constructive workshop sessions, students will explore special topics in the genre such as: fact versus fiction, writing real people, the moral role of the author, the interview process, and how to get published. Students will also produce, workshop and rewrite an original piece of long-form creative non-fiction and prepare it for potential publication.
Prerequisite: ENGB63H3
Recommended Preparation: Students should have developed a substantial body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**ENGC89H3 Creative Writing and Performance**
This course connects writers of poetry and fiction, through discussion and workshop sessions, with artists from other disciplines in an interdisciplinary creative process, with the aim of having students perform their work. Preference will be given to students in Creative Writing, however, students in performance-based disciplines such as TAPS and Music and Culture may be admitted with the permission of the instructor. Admission is by portfolio.
Prerequisite: ENGB61H3 or ENGB62H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**ENGC90H3 Topics in Classical Myth and Literature**
This course pursues the in-depth study of a small set of myths. We will explore how a myth or mythological figure is rendered in a range of literary texts ancient and modern, and examine each text as both an individual work of art and a strand that makes up the fabric of each given myth.
Pre-1900 course
Prerequisite: ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)] and ENGB30H3
Exclusion: CLAC01H3, (ENGC58H3), (ENGC60H3), (ENGC61H3)
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

**ENGC91H3 American Realisms**
An exploration of late nineteenth- and early twentieth-century American realism and naturalism in literary and visual culture. This course will explore the work of writers such as Henry James, William Dean Howells, Edith Wharton, Charles Chesnutt, Stephen Crane, Frank Norris, Kate Chopin, and Theodore Dreiser alongside early motion pictures, photographs, and other images from the period.
Prerequisite: ENGB03H3 and ENGB04H3 and [one of ENGB05H3 or (ENGB01H3)]
Enrolment Limits: 45
Breadth Requirement: Arts, Literature & Language

**ENGD03H3 Topics in Contemporary Literary Theory**
A study of selected topics in recent literary theory. Emphasis may be placed on the oeuvre of a particular theorist or on the impact of a given theoretical movement; in either case, the relation of theory to literary critical practice will be considered, as will the claims made by theory across a range of aesthetic and political discourses and in response to real world demands. Recommended for students planning to pursue graduate study in English literature.
Prerequisite: 2 C-level courses in English.
Recommended Preparation: ENGC15H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

**ENGD07H3 Studies in Postmodern Poetry**
The study of a poet or poets writing in English after 1950. Topics may include the use and abuse of tradition, the art and politics of form, the transformations of an oeuvre, and the relationship of poetry to the individual person and to the culture at large.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

**ENGD08H3 Topics in African Literature**
This advanced seminar will provide intensive study of a selected topic in African literature written in English; for example, a single national literature, one or more authors, or a literary movement.
Prerequisite: 2 C-level courses in English or [AFSA01H3 & ENGC72H3]
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

**ENGD12H3 Topics in Life Writing**
A detailed study of some aspect or aspects of life-writing. Topics may include life-writing and fiction, theory, criticism, self, and/or gender. Can count as a pre-1900 course depending on the topic.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

**ENGD13H3 Rap Poetics**
An intensive study of rhetoric, genre, meaning, and form in rap lyrics. The three-decade-plus recorded history of this popular poetry will be discussed in rough chronological order. Aspects of African-American poetics, as well as folk and popular song, germane to the development of rap will be considered, as will narrative and vernacular strategies in lyric more generally; poetry's role in responding to personal need and to social reality will also prove relevant.
Prerequisite: ENGB03H3 & ENGB04H3 & [one of ENGB05H3 or (ENGB01H3)]
Exclusion: (ENGC73H3), (ENGD63H3)
ENGD14H3 Topics in Early Modern English Literature and Culture
An advanced inquiry into critical questions relating to the development of sixteenth- and seventeenth-century English literature and culture. Focus may include the intensive study of an author, genre, or body of work.
Pre-1900 course
Prerequisite: 2 C-level courses in English.
Recommended Preparation: [ENG632H3 or ENGB3H3] and one of [ENGC10H3 or (ENG632H3) or ENGC33H3 or ENGC34H3 or ENGC35H3]
Enrolment Limits: 22

ENGD18H3 Topics in the Long Eighteenth Century, 1660-1830
Topics in the literature and culture of the long eighteenth century. Topics vary from year to year and might include a study of one or more authors, or the study of a specific literary or theatrical phenomenon.
Pre-1900 course
Prerequisite: 2 C-level courses in English
Recommended Preparation: [one of ENGC37H3 or ENGC38H3 or ENGC39H3]
Enrolment Limits: 22

ENGD19H3 Theoretical Approaches to Early Modern English Literature and Culture
An in-depth study of sixteenth- and seventeenth-century literature together with intensive study of the theoretical and critical perspectives that have transformed our understanding of this literature.
Pre-1900 course
Prerequisite: 2 C-level courses in English
Recommended Preparation: [ENG632H3 or ENGB3H3] and one of [ENGC10H3 or (ENG632H3) or ENGC33H3 or ENGC34H3 or ENGC35H3]
Enrolment Limits: 22

ENGD22H3 Special Topics in Creative Writing II
This multi-genre creative writing course, designed around a specific theme or topic, will encourage interdisciplinary practice, experiential adventuring, and rigorous theoretical reflection through readings, exercises, field trips, projects, etc. Admission by portfolio. The portfolio should contain 10-20 pages of your best writing (any genre). Please email your portfolio to dtyssyl@utsc.utoronto.ca by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).
Prerequisite: ENGC08H3
Recommended Preparation: Students should have developed a small body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGD26Y3 Independent Studies in Creative Writing: Poetry
Advanced study of the writing of poetry for students who have excelled at the introductory and intermediate levels. Admission by portfolio. The portfolio should contain 15-25 pages of your best poetry and a 500-word description of your project. Please email your portfolio to dtyssyl@utsc.utoronto.ca by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).
Prerequisite: ENGB60H3 and ENGC86H3 and 1 other C-level Creative Writing course and permission of the instructor.
NOTE: Students may count no more than 1.0 full credit of D-level independent study towards an English program.

ENGD27Y3 Independent Studies in Creative Writing: Prose
Advanced study of the writing of fiction or creative nonfiction for students who have excelled at the introductory and intermediate levels. Admission by portfolio. The portfolio should contain 30-40 pages of your best fiction or creative nonfiction and a 500-word description of your project. Please email your portfolio to awestoll@utsc.utoronto.ca by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).
Prerequisite: [ENGB61H3 or ENGB63H3] and [ENGC87H3 or ENGC88H3] and [1 other C-level Creative Writing course] and permission of the instructor.
Exclusion: (ENGD27H3)
NOTE: Students may count no more than 1.0 full credit of D-level independent study towards an English program.

ENGD28Y3 Independent Studies in Creative Writing: Special Topics
Advanced study of the writing of a specific genre, or on a specific topic or theme, for students who have excelled at the introductory and intermediate levels. Admission by portfolio. The portfolio should contain 20-30 pages of your best work composed in your genre of choice and a 500-word description of your project. Please email your portfolio to dtyssyl@utsc.utoronto.ca by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).
Prerequisite: [[ENGB60H3 or ENGC86H3] or [ENGB61H3] and ENGC87H3]] and 1 other C-level Creative Writing course and permission of the instructor.
Exclusion: (ENGD28H3)
NOTE: Students may count no more than 1.0 full credit of D-level independent study towards an English program.

ENGD29H3 Chaucer at Work
Advanced study of Chaucer that explores the process of writing poetry in fourteenth-century England. Specific topics vary from year to year and might include an exploration of Chaucer’s cultural and literary contexts or a survey of contemporary critical approaches to Chaucer and Medieval English literature.
Prerequisite: ENGB27H3 and ENGC29H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language
NOTE: Texts will be read in Middle English.

ENGD30H3 Topics in Medieval Literature
Topics in the literature and culture of the medieval period. Topics vary from year to year and might include a study of one or more authors.
Pre-1900 course
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGC29H3 or ENGC30H3
Enrolment Limits: 22

ENGD42H3 Studies in Major Modernist Writers
Advanced study of a selected Modernist writer or small group of writers. The course will pursue the development of a single author's work over the course of his or her entire career or it may focus on a small group of thematically or historically related writers.
Prerequisite: 2 C-level courses in English.
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language
ENGD43H3  Topics in Romanticism, 1750-1850
Topics in the literature and culture of the Romantic movement. Topics vary from year to year and may include Romantic nationalism, the Romantic novel, the British 1790s, or American or Canadian Romanticism.
Pre-1900 course
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGC42H3
Enrolment Limits: 22

ENGD48H3  Studies in Major Victorian Writers
Advanced study of a selected Victorian writer or small group of writers. The course will pursue the development of a single author's work over the course of his or her entire career or it may focus on a small group of thematically or historically related writers.
Pre-1900 course
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGB45H3 or ENGC21H3 or ENGC22H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD52H3  Cinema: The Auteur Theory
An exploration of the genesis of auteur theory. By focusing on a particular director such as Jane Campion, Kubrick, John Ford, Cronenberg, Chaplin, Egoyan, Bergman, Godard, Kurosawa, Sembene, or Bertolucci, we will trace the extent to which a director's vision can be traced through their body of work.
Prerequisite: 2 C-level courses in English
Exclusion: INI374H, INI375H
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD53H3  Studies in Popular Genres
Advanced study of a genre or genres not typically categorized as "literature", including different theoretical approaches and/or the historical development of a genre. Possible topics might include science fiction, fantasy, gothic, horror, romance, children's or young adult fiction, or comics and graphic novels.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD54H3  Comparative Approaches to Literature and Culture
An in-depth examination of a theme or topic through literary texts, films, and/or popular culture. This seminar course will be organized around a particular topic and will include texts from a variety of traditions. Topics might include, for example, "Disability and Narrative" or "Technology in Literature and Popular Culture."
Prerequisite: 2 C-level courses in English
Breadth Requirement: Arts, Literature & Language

ENGD55H3  Literature, Politics, Revolution
This advanced seminar will focus on a selected writer or a small group of writers whose literary work engages with themes of politics, revolution and/or resistance. The course will pursue the development of a single author's work over their entire career, or the development of a small group of thematically or historically related writers, and may include film and other media. Topics will vary year to year.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD57H3  Studies in Major Canadian Writers
Advanced study of a selected Canadian writer or small group of writers. The course will pursue the development of a single author's work over the course of his or her entire career or it may focus on a small group of thematically or historically related writers.
Prerequisite: 2 C-level courses in English
Exclusion: (ENGD51H3), (ENGD88H3)
Recommended Preparation: ENGB06H3 or ENGB07H3
Enrolment Limits: 22

ENGD58H3  Topics in Canadian Literature
Topics in the literature and culture of Canada. Topics vary from year to year and may include advanced study of ethics, haunting, madness, or myth; or a particular city or region.
Prerequisite: 2 C-level courses in English
Exclusion: (ENGD51H3), (ENGD88H3)
Recommended Preparation: ENGB06H3 or ENGB07H3
Enrolment Limits: 22

ENGD59H3  Topics in American Poetry
This seminar will usually provide advanced intensive study of a selected American poet each term, following the development of the author's work over the course of his or her entire career. It may also focus on a small group of thematically or historically related poets.
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGB06H3
Enrolment Limits: 22

ENGD60H3  Topics in American Prose
This seminar course will usually provide advanced intensive study of a selected American prose-writer each term, following the development of the author's work over the course of his or her entire career. It may also focus on a small group of thematically or historically related prose-writers.
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGB06H3
Enrolment Limits: 22

ENGD62H3  Topics in Postcolonial Literature and Film
An exploration of multicultural perspectives on issues of power, perception, and identity as revealed in representations of imperialism and colonialism from the early twentieth century to the present.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22

ENGD63H3  Topics in Pre-colonial Literature
Topics in the literature and culture of indigenous communities before European contact, including First Nations literature and oral traditions.
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGB09H3
Exclusion: (ENGD51H3), (ENGD88H3)
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD65H3  Topics in American Literature
Advanced study of the literature and culture of the United States. Topics vary from year to year and may include advanced study of American literature, the development of a small group of thematically or historically related authors, and may include film and other media. Topics will vary year to year.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD66H3  Topics in African Literature
Advanced study of African literature and culture. Topics vary from year to year and may include advanced study of African literature, the development of a small group of thematically or historically related writers, and may include film and other media. Topics will vary year to year.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD67H3  Studies in Arab North-American Literature
A study of Arab North-American writers from the twentieth century to the present. Surveying one hundred years of Arab North-American literature, this course will examine issues of gender, identity, assimilation, and diaspora in poetry, novels, short stories, autobiographies and nonfiction.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD68H3  Topics in Literature and Religion
Topics might explore the representation of religion in literature, the way religious beliefs might inform the production of literature and literary values, or literature written by members of a particular religious group.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22

ENGD71H3  Studies in Arab North-American Literature
A study of Arab North-American writers from the twentieth century to the present. Surveying one hundred years of Arab North-American literature, this course will examine issues of gender, identity, assimilation, and diaspora in poetry, novels, short stories, autobiographies and nonfiction.
Prerequisite: 2 C-level courses in English
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language
ENGD80H3 Women and Canadian Writing
A study of the remarkable contribution of women writers to the development of Canadian writing. Drawing from a variety of authors and genres (including novels, essays, poems, autobiographies, biographies, plays, and travel writing), this course will look at topics in women and Canadian literature in the context of theoretical questions about women's writing.
Prerequisite: 2 C-level courses in English
Recommended Preparation: ENGB06H3 or ENGB07H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD84H3 Canadian Writing for the New Century
An analysis of features of Canadian writing at the end of the twentieth and the beginning of the twenty-first century. This course will consider such topics as changing themes and sensibilities, canonical challenges, and millennial and apocalyptic themes associated with the end of the twentieth century.
Prerequisite: 2 C-level courses in English.
Recommended Preparation: ENGB06H3 or ENGB07H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD89H3 Topics in the Victorian Period
Topics vary from year to year and might include Victorian children's literature; city and country in Victorian literature; science and nature in Victorian writing; aestheticism and decadence; or steampunk.
Pre-1900 course
Prerequisite: 2 C-level courses in English.
Exclusion: ENG443Y
Recommended Preparation: ENGB45H3 or ENGC21H3 or ENGC22H3
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD91H3 Avant-Garde Cinema
An exploration of Avant-Garde cinema from the earliest experiments of German Expressionism and Surrealism to our own time. The emphasis will be on cinema as an art form aware of its own uniqueness, and determined to discover new ways to exploit the full potential of the "cinematic".
Prerequisite: 2 C-level courses in English
Exclusion: INI322Y
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD93H3 Theoretical Approaches to Cinema
Advanced study of theories and critical questions that inform current directions in cinema studies.
Prerequisite: 2 C-level courses in English
Exclusion: INI214Y
Recommended Preparation: A film course at the B- or C-level.
Enrolment Limits: 22
Breadth Requirement: Arts, Literature & Language

ENGD94H3 Stranger Than Fiction: The Documentary Film
The study of films from major movements in the documentary tradition, including ethnography, cinema vérité, social documentary, the video diary, and "reality television". The course will examine the tensions between reality and representation, art and politics, technology and narrative, film and audience.
Prerequisite: 2 courses at the C-level in English
Exclusion: INI325Y
Recommended Preparation: A film course at the B- or C-level.
Enrolment Limits: 22

ENGD95H3 Creative Writing as a Profession
A practical introduction to the tools, skills and knowledge-base required to publish in the digital age and to sustain a professional creative writing career. Topics include: the publishing landscape, pitching creative work, and employment avenues for creative writers. Will also include a workshop component (open to all genres).
Prerequisite: 2 C-level courses in Creative Writing
Recommended Preparation: Students should have developed a significant body of creative works before enrolling in this course.
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

ENGD96H3 Iranian Cinema
This course examines the development of Iranian cinema, particularly experimental and art cinema. Questions of form, and the political and social dimensions of cinema, will be considered alongside the theory of national cinemas. The course places Iranian cinema in a global context by considering it with other national cinemas.
Prerequisite: At least one course (0.5 credit) at B- or C-level in film
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Minor in Literature and Film Studies.

ENGD98Y3 Senior Essay and Capstone Seminar
An intensive year-long seminar that supports students in the development of a major independent scholarly project. Drawing on workshops and peer review, bi-monthly seminar meetings will introduce students to advanced research methodologies in English and will provide an important framework for students as they develop their individual senior essays. Depending on the subject area of the senior essay, this course can be counted towards the Pre-1900 requirement.
Prerequisite: Minimum GPA of 3.5 in English courses; 15.0 credits, of which at least 2.0 must be at the C or D-level in English.
Exclusion: ENG490Y
Recommended Preparation: At least one D-level course in English
Enrolment Limits: 15
Environmental Science

Faculty List

- G.B. Arhonditsis, B.Sc., M.Sc. (Agricultural Univ. of Athens, Greece), Ph.D. (Univ. of the Aegean, Greece), Professor
- M. Dittrich, M.S. (Moscow), Ph.D. (Humbolt), Associate Professor
- N. Eyles, B.Sc. (Leicester), M.Sc. (Memorial University NFLD), Ph.D. (East Anglia), D.Sc. (Leicester), P. Geo., Professor
- R.R. Fulthorpe, B.Sc., M.SC. (Toronto), Ph.D. (Carlton), Professor
- W.A. Gough, B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (McGill), Professor
- B. Greenwood, B.Sc., Ph.D. (Bristol), Ph.D. (Hons. Causa, Uppsala), Professor Emeritus
- K.W.F. Howard, B.Sc. (Exeter), M.Sc., Ph.D. (Birmingham), P.Geo., C.Geol.F.G.S., P.H.G., Professor
- M.E. Isaac, Ph.D. (Toronto), Associate Professor
- M. Meriano, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- C. Mitchell, B.Sc. (McMaster), M.Sc., Ph.D. (Toronto), Associate Professor
- T. Mohsin, B.Sc. (Dhaka), M.Sc. (Dhaka), M.E.S. (Newcastle), Ph.D. (Toronto), Lecturer
- A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor Emeritus
- A. Simpson, B.Sc., Ph.D. (Birmingham), Professor
- M.J. Simpson, B.Sc., Ph.D. (Alberta), Professor
- F. Wania, Dipl.Geook. (Bayreuth), Ph.D. (Toronto), Professor
- M. Wells, B.Sc., Ph.D. (Australian National), Associate Professor
- J.A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), Professor Emeritus
- D.D. Williams, B.Sc. (North Wales), Dip. Ed. (Liverpool), M.Sc., Ph.D. (Waterloo), D.Sc. (Wales), Professor Emeritus

Human activity is a major cause of environmental change. Study of the dynamics of both natural and anthropogenic changes requires knowledge spanning many scientific disciplines. Recent environmental degradation such as surface and subsurface water pollution, air and soil pollution, climate change, depletion of resources, extinction of species and problems of waste disposal are all a result of the lack of understanding of environmental systems and processes. Environmental degradation has an impact not only on human beings but on all species and most natural systems, so that its understanding requires approaches and skills from many disciplines such as biology, chemistry, geology, geography, mathematics, physics, and ecology.

The following programs in Environmental Science are available at UTSC:

- Four Specialist Programs (Environmental Biology, Environmental Chemistry, Environmental Geoscience and Environmental Physics)
- A Major Program in Environmental Science
- A Minor Program in Environmental Science
- Note: enrolment in the Joint Specialist Program in Environmental Science and Technology has been suspended.

All Environmental Science Specialist programs (Environmental Biology, Environmental Chemistry, Environmental Geoscience, Environmental Physics, and Environmental Science), in addition to the Specialist (Joint) program in Environmental Science and Technology, and the Major program in Environmental Science have earned official accreditation from Environmental Careers Organization (ECO) Canada and the Canadian Environmental Accreditation Commission (CEAC). These UTSC programs have met the national standard required to earn accredited status, which connects industry and academics in the environmental sector. Graduates of these programs are eligible to receive their Environmental Professional in Training (EPI) designation, which is a developmental certification for emerging environmental professionals. To learn more about the EPI program see: http://www.eco.ca/accreditation.

The overall purpose of the various programs in Environmental Science is to provide education and training which will produce highly qualified scientists with excellent field and laboratory experience, with a view to future employment in consulting, government, non-governmental organizations and research and teaching.

Co-operative Program Offerings

Co-op Supervisor of Studies (except Environmental Physics): Mandy Meriano (416-208-2775); Email: mmeriano@utsc.utoronto.ca
Co-op Supervisor of Studies (Environmental Physics only): Julian Lowman (416-208-4880; Email: lowman@utsc.utoronto.ca; and Tanzina Mohsin (416-287-7245); Email: tanzina.mohsin@utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Eligible Programs of Study

The following Co-operative (Co-op) programs in Environmental Science are available at UTSC:

- Specialist in Environmental Biology
- Specialist in Environmental Chemistry
- Specialist in Environmental Geoscience
- Specialist in Environmental Physics (see Physics and Astrophysics for more information)

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Environmental Science

- Major in Environmental Science

The Co-op Programs in Environmental Science allow students to combine their chosen academic program with an integrated and complementary work experience. Students are required to complete the program requirements of any one of the above listed non-Co-op Specialist Programs, or non-Co-op Major Program within their 20-credit degree program. They will also complete three work terms of four months each, as well as a specially designed series of enhancement seminars. The overall purpose of these Co-op Programs is to provide students with an educational milieu that will allow them to develop as highly qualified scientists, and with excellent experience in both the academic and workplace environments. Students who are admitted to Co-op Sciences from secondary school with an interest in studying Environmental Science will choose their specific Co-op offering toward the end of their first year of study.

For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are a cumulative GPA of at least 2.50 and the completion of all course prerequisites as noted in the Program Admission section below.

Program Admission

Students must meet the following requirements to gain entry into their desired program area:

1. Environmental Biology (Specialist): 4.5 full credits as follows: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, EESA01H3, EESA06H3, MATA30H3, MATA35H3 or MATA36H3 or MATA37H3 & PHYA10H3
2. Environmental Chemistry (Specialist): 4.5 full credits as follows: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, EESA01H3, EESA06H3, MATA30H3, MATA35H3 or MATA36H3 or MATA37H3 & PHYA10H3
3. Environmental Geoscience (Specialist): 4.5 full credits as follows: BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, EESA01H3, EESA06H3, MATA30H3, MATA35H3 or MATA36H3 or MATA37H3 & PHYA10H3
4. Environmental Physics (Specialist): 3.5 full credits as follows: CHMA10H3, CHMA11H3, EESA06H3, MATA30H3, MATA36H3 or MATA37H3, PHYA10H3 & PHYA21H3
5. Environmental Science (Major): 4.0 full credits including BIOA01H3, BIOA02H3, EESA06H3

Work Terms

To be eligible for their first work term, students must have completed at least 7.0 full credits. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

Combined Degree Programs, Specialist programs in Environmental Science, Honours Bachelor of Science/ Master of Engineering (Chemical Engineering & Applied Chemistry or Civil Engineering)

The Combined Degree Programs in Environmental Science (BSc) and MEng allows exceptional students who are registered in one of the UTSC Specialist or Specialist Co-op programs in Environmental Science (Environmental Biology, Environmental Chemistry, Environmental Geoscience, or Environmental Physics) to apply during their third year, and be considered, for admission to the Faculty of Engineering & Applied Chemistry MEng programs in either Chemical Engineering & Applied Chemistry or Civil Engineering.

Combined Degree Programs options are:

- Environmental Biology (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Biology (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Chemistry (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Geoscience (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Physics (Specialist), Honours Bachelor of Science/ Civil Engineering, Master of Engineering
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Civil Engineering, Master of Engineering

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in
specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options include:
- Environmental Chemistry (Specialist), Honours Bachelor of Science/ Master of Teaching
- Environmental Chemistry (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Environmental Physics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

Service Learning and Outreach (Previously known as Science Engagement)
For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

Environmental Science Programs

SPECIALIST PROGRAM IN ENVIRONMENTAL BIOLOGY (SCIENCE)

Acting Supervisor of Studies: A. Martin (416-287-7326) Email: adam.martin@utoronto.ca

Program Requirements
Total requirements: 14.0 full credits

First Year:
- EESA01H3 Introduction to Environmental Science
- EESA06H3 Introduction to Planet Earth
- BIOA01H3 Life on Earth: Unifying Principles
- BIOA02H3 Life on Earth: Form, Function and Interactions
- CHMA10H3 Introductory Chemistry I: Structure and Bonding
- CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
- MATA30H3 Calculus I for Physical Sciences
- [MATA35H3 Calculus II for Biological Sciences or MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]*
- [PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]

*Note: MATA35H3 cannot be used to fulfill the prerequisites for PSCB57H3

Second Year:
- BIOB50H3 Ecology
- BIOB51H3 Evolutionary Biology
- BIOB52H3 Ecology and Evolutionary Biology Laboratory
- EESB15H3 Earth History
- EESB16H3 Feeding Humans - The Cost to the Planet
- STAB22H3 Statistics I
- [PSCB57H3 Introduction to Scientific Computing or CSCA08H3 Introduction to Computer Science I]
  and
- 1.0 full credit from the following:
  - EESB03H3 Principles of Climatology
  - EESB04H3 Principles of Hydrology
  - EESB05H3 Principles of Soil Science
  - CHMB55H3 Environmental Chemistry

Third and Fourth Years:
2.0 credits as follows:
- EESC03H3 Geographic Information Systems and Remote Sensing
- EESC04H3 Biodiversity and Biogeography
- EESC05H3 Environmental Microbiology
- EESC13H3 Environmental Impact Assessment and Auditing

2.0 credits from:
- BIOC51H3 Tropical Biodiversity Field Course
- BIOC52H3 Ecology Field Course
- BIOC58H3 Biological Consequences of Global Change
- BIOC59H3 Advanced Population Ecology
- BIOC61H3 Community Ecology and Environmental Biology
- BIOC65H3 Environmental Toxicology
Environmental Science

BIOC62H3 The Role of Zoos in Conservation
BIOC63H3 Conservation Biology
(BIOC67H3) Inter-University Biology Field Course

1.0 credit from:
EESD02H3 Contaminant Hydrogeology
EESD06H3 Climate Change Impact Assessment
EESD13H3 Environmental Law, Policy and Ethics
EESD15H3 Fundamentals of Site Remediation
EESC20H3 Geochemistry
EESD09H3 Research Project in Environmental Science
EESD10Y3 Research Project in Environmental Sciences
BIOD52H3 Special Topics in Biodiversity and Systematics
BIOD60H3 Spatial Ecology
BIOD66H3 Causes and Consequences of Biodiversity
BIOD95H3 Supervised Study in Biology
BIOD98Y3 Research Project in Biology

SPECIALIST PROGRAM IN ENVIRONMENTAL CHEMISTRY (SCIENCE)

Supervisor of Studies: Myrna Simpson (416) 287-7234 Email: myrna.simpson@utoronto.ca

Program Requirements
Total requirements: 15.0 full credits

First Year:
EESA01H3 Introduction to Environmental Science
EESA06H3 Introduction to Planet Earth
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA30H3 Calculus I for Physical Sciences
MATA36H3 Calculus II for Physical Sciences
PHYA10H3 Introduction to Physics IA

Second Year:
CHMB16H3 Techniques in Analytical Chemistry
CHMB20H3 Chemical Thermodynamics and Elementary Kinetics
CHMB41H3 Organic Chemistry I
CHMB42H3 Organic Chemistry II
CHMB55H3 Environmental Chemistry
EESB15H3 Earth History
STAB22H3 Statistics I
and
1.0 credit from the following:
CHMB21H3 Chemical Structure and Spectroscopy
EESB03H3 Principles of Climatology
EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science

Third Year:
EESC03H3 Geographic Information Systems and Remote Sensing
EESC07H3 Groundwater
EESC13H3 Environmental Impact Assessment and Auditing
EESC20H3 Geochemistry
CHMB31H3 Introduction to Inorganic Chemistry
CHMC11H3 Principles of Analytical Instrumentation
PSCB57H3 Introduction to Scientific Computing

Fourth Year:
CHMD16H3 Environmental and Analytical Chemistry
and
1.0 credit from the following:
  EESD02H3 Contaminant Hydrogeology
  EESD13H3 Environmental Law, Policy and Ethics
  EESD15H3 Fundamentals of Site Remediation
and
1.0 credit from the following:
  CHMC21H3 Topics in Biophysical Chemistry
  CHMC31Y3 Intermediate Inorganic Chemistry
  CHMC41H3 Organic Reaction Mechanisms
  CHMC42H3 Organic Synthesis
  CHMC47H3 Bio-Organic Chemistry
  CHMD59H3 Topics in Environmental Chemistry
  CHMD89H3 Introduction to Green Chemistry
  CHMD90Y3 Directed Research in Chemistry
  CHMD91H3 Directed Research in Chemistry
  CHMD92H3 Advanced Chemistry Laboratory Course

SPECIALIST PROGRAM IN ENVIRONMENTAL GEOSCIENCE (SCIENCE)

Supervisor of Studies: M. Meriano (416-208-2775) Email: mmeriano@utsc.utoronto.ca

This program has been designed to meet the expectations of the Association of Professional Geoscientists of Ontario (APGO) - the licensing and regulatory body responsible for ensuring that geoscientists have the appropriate qualifications to practice. Students are encouraged to make careful choice of optional/elective courses to meet APGO requirements.

Please visit the APGO website for further information on requirements to become a Professional Geoscientist (P.Geo) in Ontario.

Program Requirements
Total requirements: 15.5 full credits of which 1.0 must be at the D-level as follows:

First Year:
  EESA01H3 Introduction to Environmental Science
  EESA06H3 Introduction to Planet Earth
  BIOA01H3 Life on Earth: Unifying Principles
  BIOA02H3 Life on Earth: Form, Function and Interactions
  CHMA10H3 Introductory Chemistry I: Structure and Bonding
  CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
  MATA30H3 Calculus I for Physical Sciences
  [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]
  [PHYA10H3 Introduction to Physics IA or PHYA11H3 Introduction to Physics IB]

Second Year:
  CHMB55H3 Environmental Chemistry
  EESB02H3 Principles of Geomorphology
  EESB03H3 Principles of Climatology
  EESB04H3 Principles of Hydrology
  EESB05H3 Principles of Soil Science
  EESB15H3 Earth History
  EESB18H3 Natural Hazards
  EESB19H3 Mineralogy
  PSCB57H3 Introduction to Scientific Computing
  STAB22H3 Statistics I

Third Year:
  EESB20H3 Sedimentology and Stratigraphy
  EESC03H3 Geographic Information Systems and Remote Sensing
  EESC07H3 Groundwater
  EESC13H3 Environmental Impact Assessment and Auditing
  EESC20H3 Geochemistry
  EESC31H3 Glacial Geology
  EESC36H3 Petrology
and
Environmental Science

0.5 credit from the following:
- BIOB50H3 Ecology
- EESC18H3 Limnology
- EESC19H3 Oceanography

Fourth Year:
- EESC37H3 Structural Geology
and
0.5 credit from the following:
- EESD02H3 Contaminant Hydrogeology
- EESD06H3 Climate Change Impact Assessment
- EESD09H3 Research Project in Environmental Science
- EESD10Y3 Research Project in Environmental Science
- EESD11H3 Process Hydrology
  - EESD13H3 Environmental Law, Policy and Ethics
  - EESD15H3 Fundamentals of Site Remediation
  - EESD19H3 Professional Development Seminars in Geoscience
  - EESD20H3 Urban Environmental Problems of the Greater Toronto Area
and
- 1.0 full credit from any other EES courses

Strongly recommended: EESC16H3 Field Methods or EESD07H3 Field Camp II

SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS ( SCIENCE )

See the Physics and Astrophysics section of this Calendar for program description.

SPECIALIST(JOINT) PROGRAM IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY (SCIENCE)

See the Environmental Science and Technology section of this Calendar for program description.

MAJOR PROGRAM IN ENVIRONMENTAL SCIENCE ( SCIENCE )

Supervisor of Studies: T. Mohsin (416-287-7245) Email: tanzina.mohsin@utoronto.ca

Program Requirements

This program requires 8.5 full credits as follows:

First Year
- BIOA01H3 Life on Earth: Unifying Principles
- BIOA02H3 Life on Earth: Form, Function and Interactions
- CHMA10H3 Introductory Chemistry I: Structure and Bonding
- CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
  - ([MATA20H3) Calculus A or MATA30H3 Calculus I for Physical Sciences]
  - ([MATA21H3) Calculus B or MATA35H3 or MATA36H3 Calculus II for Biological/Physical Sciences]*
  - [PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB]
- EESA06H3 Planet Earth

*Note: MATA35H3 cannot be used to fulfill the prerequisites for PSCB57H3

Second Year
- STAB22H3 Statistics I
and
- 1.5 credits from:
  - EESB03H3 Principles of Climatology
  - EESB04H3 Principles of Hydrology
  - EESB05H3 Principles of Soil Science
  - EESB15H3 Earth History
  - EESB16H3 Feeding Humans - The Cost to the Planet
and
- 0.5 credits from:
  - BIOB50H3 Ecology
  - EESB02H3 Principles of Geomorphology
MINOR PROGRAM IN ENVIRONMENTAL SCIENCE (SCIENCE)

Supervisor of Studies/Advisor: M. Wells (416-208-4879) Email: wells@utsc.utoronto.ca

The Minor Program is designed to provide insights into the basic principles of Environmental Science and its application to current environmental issues. It is intended for students with an interest in environmental issues but who do not have the necessary background for specialization in the field. In addition to science students, it is appropriate for students pursuing a degree in the social sciences or in management and economics.

Program Requirements
Total requirements: 4.0 full credits

First Year:
EESA01H3 Introduction to Environmental Science
EESA06H3 Introduction to Planet Earth

Second Year:
1.5 full credits from the following:
EESB02H3 Principles of Geomorphology
EESB03H3 Principles of Climatology
EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science
EESB15H3 Earth History

Third Year:
1.5 full credits of any other EES courses of which 1.0 full credit must be at the C- or D-level.

Environmental Science Courses

EESA01H3 Introduction to Environmental Science
The scientific method and its application to natural systems. The physical and biological processes which drive ecosystem functions. Anthropogenic changes in ecosystem functions at local and global scales. Emphasis on the degradation of the atmosphere, soil, water and biological resources caused by human activity. Renewable and non-renewable resource sustainability. Laboratories will include hands-on field and lab related practical experience. Exclusion: ENV100Y
Breadth Requirement: Natural Sciences

EESA06H3 Introduction to Planet Earth
This general interest course explores the composition, structure and origin of the Earth and the tectonic, chemical and biological processes that have evolved over the last 4.5 billion years. It explains how planet “works” as a complex system. It provides a fundamental basis for understanding many of the environmental challenges faced by human societies especially natural hazards, water shortages, and climate change, and the importance of natural resources to our economy. Exclusion: GGR100Y, GLG110H
Breadth Requirement: Natural Sciences

EESA07H3 Water
This course consists of a survey of the planet's water resources and the major issues facing the use of water. Topics include: Earth, the watery planet; water, the last great resource; Canada's waters; Ontario's waters; water and man; water contamination; and protecting our waters. Case studies such as the Walkerton tragedy will be studied. No prior knowledge of environmental science is required.
Breadth Requirement: Natural Sciences

EESA09H3 Wind
A survey of the science, history and applications of wind. Topics include storms including hurricanes, tornadoes and mid-latitude cyclones, global circulation, local circulations, measurement of winds, impact of winds on land surfaces, wind power, winds and pollution, historical and literary winds, and contemporary wind research. No prior knowledge of environmental science is required.
Breadth Requirement: Natural Sciences

EESA10H3 Human Health and the Environment
Because of pollution, our surroundings are becoming increasingly hazardous to our health. The past century has seen intense industrialization characterized by the widespread production and use of chemicals and the intentional and unintentional disposal of a wide range of waste materials. This course explores the relationship between the incidence of disease in human populations and the environmental pollution. Emphasis will be placed on understanding where and what pollutants are produced, how they are taken up by humans and their long term effects on health; the role of naturally-occurring carcinogens will also be examined. The course will include a view of risk assessment and toxicology using case studies. No prior knowledge of environmental or medical science is required.
EESB02H3 Principles of Geomorphology
The physical and chemical processes responsible for the development of regolith at the surface of the earth and the mechanics of entrainment, transport and deposition of mass by rivers, wind, glaciers, water waves, gravitational stresses, etc., which control the evolution of surface morphology. Field excursions and laboratory exercises will allow students to apply theory to natural systems and to understand the dynamics of one modified geomorphic system. Prerequisite: EESA06H3
Exclusion: GGR201H
Breadth Requirement: Natural Sciences

EESB03H3 Principles of Climatology
This is an overview of the physical and dynamic nature of meteorology, climatology and related aspects of oceanography. Major topics include: atmospheric composition, nature of atmospheric radiation, atmospheric moisture and cloud development, atmospheric motion including air masses, front formation and upper air circulation, weather forecasting, ocean circulation, climate classification, climate change theory and global warming. Prerequisite: EESA06H3 or EESA09H3
Exclusion: GGR203H, GGR312H
Breadth Requirement: Natural Sciences

EESB04H3 Principles of Hydrology
The water and energy balances; fluxes through natural systems. Process at the drainage basin scale; precipitation, evaporation, evapotranspiration and streamflow generation. The measurement of water fluxes, forecasting of rainfall and streamflow events. Human activity and change in hydrologic processes. Prerequisite: EESA01H3 or EESA06H3 or any B-level EES course. Exclusion: GGR206H
Breadth Requirement: Natural Sciences

EESB05H3 Principles of Soil Science
A study of the processes of pedogenesis and the development of diverse soil profiles, their field relationships and their response to changing environmental conditions. An examination of the fundamental soil properties of importance in soil management. An introduction to the techniques of soil examination in the field, soil analysis in the laboratory and the basic principles of soil classification. Prerequisite: EESA01H3 or EESA06H3
Exclusion: GGR205H
Breadth Requirement: Natural Sciences

EESB15H3 Earth History
Planet Earth is at least 4,400 million years old and a geological record exists for at least the last 3,900 million years in the form of igneous, metamorphic and sedimentary rocks. The changing dynamics of convection deep within the Earth's mantle and associated supercontinent assembly and breakup along with meteorite impacts, are now recognized as the major controls on development of the planet's atmosphere, oceans, biology, climate and geo-chemical cycles. This course reviews this long history and the methods and techniques used by geologists to identify ancient environments. Prerequisite: EESA01H3 and EESA06H3
Breadth Requirement: Natural Sciences
NOTE: Note: Priority will be given to students in Specialist programs in Environmental Geoscience and Environmental Chemistry.

EESB16H3 Feeding Humans - The Cost to the Planet
Examines the origins and systems of production of the major plants and animals on which we depend for food. Interactions between those species and systems and the local ecology will be examined, looking at issues of over harvesting, genetic erosion, soil erosion, pesticide use, and impacts of genetically modified strains. Prerequisite: BIOA01H3 & BIOA02H3
Breadth Requirement: Natural Sciences

EESB17H3 Hydro Politics and Transboundary Water Resources Management
Competition for water resources between countries is common; population and economic growth are exacerbating this. The socio-political, environmental and economic aspects of transboundary water transfers are explored; the success of relevant international treaties and conventions, and the potential for integrated management of transboundary waters are assessed. Examples from Asia, Africa and the Middle East are presented. Prerequisite: EESA01H3 or EESA07H3
Breadth Requirement: Social & Behavioural Sciences

EESB18H3 Natural Hazards
This course is an investigation of the geological background and possible solutions to major hazards in the environment. Environmental hazards to be studied include: landslides, erosion, earthquakes, volcanic eruptions, asteroid impacts, flooding, glaciation, future climate change, subsidence, and the disposal of toxic wastes. This may be of interest to a wide range of students in the life, social, and physical sciences; an opportunity for the non-specialist to understand headline-making geological events of topical interest. No prior knowledge of the Earth Sciences is required. Exclusion: (EESA05H3), GLG103H
Breadth Requirement: Natural Sciences

EESB19H3 Mineralogy
A comprehensive introduction to crystalline structure, crystal chemistry, bonding in rock forming minerals, and optical properties of minerals. The course includes laboratory exercises on the identification of minerals in hand specimen, and identification of minerals using polarizing microscopes. Prerequisite: CHMA10H3, CHMA11H3, EESA06H3
Exclusion: (EESC32H3), (EESC35H3), GLG423H
Enrolment Limits: 20
Breadth Requirement: Natural Sciences
EESB20H3 Sedimentology and Stratigraphy
Sedimentary basins hold the bulk of Earth’s rock record and are fundamental in the study of past environments, tectonic evolution, climates, and biosphere. This course will explore different basin types and the nature of their infills. The course will also emphasize the economic resources within sedimentary basins and paleoenvironmental significance.
Prerequisite: EESA01H3 and EESA06H3
Exclusion: ESS31H3, ESS332H, ERS313H
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the Specialist Program in Environmental Geoscience (Co-op and non-Co-op).
Additional students will be admitted as space permits.

EESC03H3 Geographic Information Systems and Remote Sensing
This course focuses on the use of Geographic Information Systems (GIS) and Remote Sensing (RS) for solving a range of scientific problems in the environmental sciences and describing their relationship with - and applicability to - other fields of study (e.g., geography, computer science, engineering, geology, ecology and biology). Topics include (but are not limited to): spatial data types, formats and organization; geo-referencing and coordinate systems; remotely sensed image manipulation and analysis; map production.
Prerequisite: EESA06H3 & 1.5 full credits in B- or C-level EES courses.
Recommended Preparation: A prior introductory GIS course and some experience with the use of computers (Windows or Unix-based.)
Breadth Requirement: Quantitative Reasoning

EESC04H3 Biodiversity and Biogeography
Theoretical and practical aspect of the evolution of organismal diversity in a functional context; examination of species distributions and how these are organized for scientific study. Emphasis will be on the highly diverse invertebrate animals. Topics include biomes, dispersal, adaptation, speciation, extinction and the influence of climate history and humans.
Prerequisite: BIOB50H3
Breadth Requirement: Natural Sciences

EESC07H3 Groundwater
Groundwater represents the world’s largest and most important fresh water resource. This basic course in hydrogeology introduces the principles of groundwater flow and aquifer storage and shows how a knowledge of these fundamental tools is essential for effective groundwater resource management and protection. Special emphasis is placed on the practical methods of resource exploration and assessment; examples of the approach are given for aquifers under environmental stress in southern Ontario, the US and Africa.
Prerequisite: EESA06H3 & 1.0 full credit in B-level EES courses
Breadth Requirement: Natural Sciences

EESC16H3 Field Camp I
Many environmental problems can only be assessed by collecting geological and other environmental data in the field. This course will provide students with the necessary skills for fieldwork investigations in a range of environments. The camp is held annually either in May or late August. Locations for the camp include Costa Rica, Rockies, Arizona, and Appalachians.
Prerequisite: Permission of the instructors.
Recommended Preparation: EESB15H3
Breadth Requirement: Natural Sciences

EESC18H3 Limnology
North America is endowed with eight of the twelve largest lakes in the world. The origin and geological history, cycles of carbon, nitrogen and phosphorus, and structures of ecosystems of the North American Great Lakes will be used as examples of large lacustrine systems.
Fundamental concepts of limnology will be related to features found in the Great Lakes. Topics include: lake origins, lake classification, lake temperature structure and heat budgets, seasonal water circulations, productivity, plankton ecology, food-web dynamics, exotic species invasions, eutrophication-related phenomena and water quality/fisheries management. Specific anthropogenic influences will be illustrated using case studies from the local environment, and students will be allowed to pursue their own interests through a series of short seminars.
Prerequisite: EESB03H
Recommended Preparation: EESB02H
Breadth Requirement: Natural Sciences

EESC19H3 Oceanography
The world’s oceans constitute more than 70% of the earth’s surface environments. This course will introduce students to the dynamics of ocean environments, ranging from the deep ocean basins to marginal seas to the coastal ocean. The large-scale water circulation is examined from an observationally based water mass analysis and from a theoretical hydro-dynamical framework. The circulation of marginal seas, the role of tides, waves and other currents are studied in terms of their effects upon the coastal boundary.
Prerequisite: EESB03H
Recommended Preparation: EESB02H
Breadth Requirement: Natural Sciences

EESC20H3 Geochemistry
The course will cover fundamental aspects of chemical processes occurring at the Earth’s surface. Terrestrial and aquatic geochemical processes such as: mineral formation and dissolution, redox, aqueous-solid phase interactions, stable isotopes, and organic geochemistry in the environment will be covered.
Prerequisite: CHMA10H3 and CHMA11H3 and EESB15H3
Exclusion: (EESD32H3), CHM210H, GLG202H, GLG351H
Breadth Requirement: Natural Sciences

EESC21H3 Advanced Readings in Environmental Science
An advanced supervised readings course that can be taken in any session. Students will follow structured independent readings in any area of Environmental Science. A description of the objectives and scope of the individual offering must be approved by the Supervisor of Studies. Two papers are required in the course; the supervisor and one other faculty member will grade them. The course may not be used as a substitute for EES Program requirements.
Prerequisite: A minimum GPA of 2.5, and 3 full credits in EES courses.
Permission of the Supervisor of Studies.
Environmental Science

EESC30H3 Environmental Microbiology
This course examines the diversity of microorganisms, their adaptations to special habitats, and their critical role in the ecosystems and biogeochemical cycles. The course covers microbial phylology, physiological diversity, species interactions and state of the art methods of detection and enumeration.
Prerequisite: CHMA10H3 & CHMA11H3 & BIOB50H3 & BIOB51H3
Exclusion: (BGCY55H3)
Breadth Requirement: Natural Sciences

EESC31H3 Glacial Geology
The last 2.5 million years has seen the repeated formation of large continental ice sheets over North America and Europe. The course will review the geologic and geomorphologic record of past glacial and interglacial climates, the formation and flow of ice sheets, and modern day cold-climate processes in Canada’s north. The course includes a one-day field trip to examine the glacial record of the GTA.
Prerequisite: EESA06H3 and EESB20H3
Breadth Requirement: Natural Sciences

EESC33H3 Environmental Science Field Course
A field course on selected topics in aquatic environments. Aquatic environmental issues require careful field work to collect related hydrological, meteorological, biological, and other environmental data. This hands-on course will teach students the necessary skills for fieldwork investigations on the interactions between air, water, and biota.
Prerequisite: 1.5 full credits at the B-level or higher in EES & permission of instructor.
Exclusion: (EEB310H)
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

EESC34H3 Sustainability in Practice
This course is intended for students who would like to apply theoretical principles of environmental sustainability learned in other courses to real world problems. Students will identify a problem of interest related either to campus sustainability, a local NGO, or municipal, provincial, or federal government. Class meetings will consist of group discussions, investigating key issues, potential solutions, and logistical matters to be considered for implementation of proposed solutions. Students who choose campus issues will also have the potential to actually implement their solutions. Grades will be based on participation in class discussions, as well as a final report and presentation.
Same as ESTC34H3
Prerequisite: Enrollment in the Environmental Studies major program and 9.5 credits
Exclusion: ESTC34H3
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

EESC36H3 Petrology
This course surveys the processes that produce the chemical and mineralogical diversity of igneous, sedimentary, and metamorphic rocks including: the distribution, chemical and mineral compositions of rocks of the mantel and crust, their physical properties, and their relation to geological environments. Descriptive petrology for various rocks will also be covered.
Prerequisite: EESB19H3 or (EESC35H3)
Exclusion: (EESC32H3), GLG207H, ERS203H
Recommended Preparation: EESB15H3
Enrolment Limits: 20
Breadth Requirement: Natural Sciences
NOTE: Students who do not have the prerequisites will be removed from the course. Priority will be given to students in Year 4 of their program.

EESC37H3 Structural Geology
The course introduces mechanics of rock deformation. It examines identification, interpretation, and mechanics of faults, folds, and structural features of sedimentary, igneous and metamorphic rocks as well as global, regional and local scale structural geology and tectonics. Lectures are supplemented by lab exercises and demonstrations as well as local field trips.
Prerequisite: [PHYA10H3 or PHYA11H3] and EESB15H3 and EESB20H3
Exclusion: GLG345H, ESS241H
Enrolment Limits: 20
Breadth Requirement: Natural Sciences
NOTE: Students who do not have the prerequisites will be removed from the course. Priority will be given to students enrolled in the Specialist Program in Environmental Geoscience. Additional students will be admitted as space permits.

EESD02H3 Contaminant Hydrogeology
Natural hydrochemical processes; the use of major ions, minor ions, trace metals and environmental isotopes in studying the occurrence and nature of ground water flow. Point and non-point sources of ground water contamination and the mechanisms of contaminant transport.
Prerequisite: At least 1 full credit in Environmental Science at the C-level.
Breadth Requirement: Natural Sciences

EESD06H3 Climate Change Impact Assessment
Climate change over the last 150 years is reviewed by examining the climate record using both direct measurements and proxy data. Projection of future climate is reviewed using the results of sophisticated climate modeling. The climate change impact assessment formalism is introduced and applied to several examples. Students will acquire practical experience in climate change impact assessment through case studies.
Prerequisite: EESB03H3
Breadth Requirement: Natural Sciences

EESD07H3 Field Camp II
This field camp will familiarize students with several geological settings and modern environments. The camp is held annually either in May or late August. Locations for the camp include Costa Rica, Rockies, Arizona, and Appalachians.
Prerequisite: EESC16H3 & permission of the instructors
Breadth Requirement: Natural Sciences

EESD09H3 Research Project in Environmental Science
The design, implementation, and reporting of a substantial research project involving laboratory and/or fieldwork. Existing faculty research allows a broad range of possible topics. The course should be undertaken after the end of the 3rd Year, subject to faculty availability. Faculty permission and supervision is required; open only to those students who have either completed or are undertaking specialist courses in the area of intended study. Students having a B+ or higher standing may be eligible for summer financial support from research projects.
Prerequisite: At least 1.0 credit at the C-level in EES courses and 0.5 credit at the C-level in CHM, or PHY courses.
Exclusion: GLG470Y, GLG471H
Recommended Preparation: EESC24H3
EESD10Y3  Research Project in Environmental Science
The design, implementation, and reporting of a substantial research project involving laboratory and/or fieldwork. Existing faculty research allows a broad range of possible topics. The course should be undertaken after the end of the 3rd Year, subject to faculty availability. Faculty permission and supervision is required; open only to those students who have either completed or are undertaking specialist courses in the area of intended study. Students having a B+ or higher standing may be eligible for summer financial support from research projects. Permission of the co-ordinator must be obtained.
Prerequisite: At least 1.0 credit at the C-level in EES courses and 0.5 credit at the C-level in CHM, or PHY courses.
Exclusion: GLG470Y, GLG471H
Recommended Preparation: EESC24H3

Breadth Requirement: Natural Sciences

EESD11H3  Process Hydrology
Prerequisite: EESB04H3
Breadth Requirement: Natural Sciences

EESD13H3  Environmental Law, Policy and Ethics
This course reviews the laws and policies governing the management of natural resources in Canada. It examines the role of law and how it can it work most effectively with science, economics and politics to tackle environmental problems such as climate change, conservation, and urban sprawl at domestic and international scales.
Prerequisite: Students must have completed at least 15.0 credits
Exclusion: LAW239H
Recommended Preparation: EESA10H3 and EESA11H3 and EESC13H3
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in Environmental Science. Additional students will be admitted as space permits.

EESD15H3  Fundamentals of Site Remediation
This course consists of a study of the ways in which hazardous organic and inorganic materials can be removed or attenuated in natural systems. The theory behind various technologies, with an emphasis on bioremediation techniques and their success in practice. An introduction to the unique challenges associated with the remediation of surface and ground water environments, soils, marine systems, and contaminated sediments.
Prerequisite: BIOA01H3 & BIOA02H3 & CHMA10H3 & CHMA11H3 & [PHYA10H3 or PHYA11H3]
Breadth Requirement: Natural Sciences

EESD16H3  Project Management in Environmental Studies
Students will select a research problem in an area of special interest. Supervision will be provided by a faculty member with active research in geography, ecology, natural resource management, environmental biology, or geosciences as represented within the departments. Project implementation, project monitoring and evaluation will form the core elements for this course.
Same as ESTD16H3
Prerequisite: Enrollment in the Environmental Studies major program and 14.5 credits
Exclusion: ESTD16H3
Enrolment Limits: 30

EESD17Y3  Cohort Capstone Course in Environmental Studies
This course is designed to provide a strong interdisciplinary focus on specific environmental problems including the socioeconomic context in which environmental issues are resolved. The cohort capstone course is in 2 consecutive semesters, providing final year students the opportunity to work in a team, as environmental researchers and consultants, combining knowledge and skill-sets acquired in earlier courses. Group research to local environmental problems and exposure to critical environmental policy issues will be the focal point of the course. Students will attend preliminary meetings schedules in the Fall semester. Same as ESTD17Y3
Prerequisite: Enrollment in the Environmental Studies major program and 14.5 credits
Exclusion: ESTD17Y3
Enrolment Limits: 30
Breadth Requirement: Natural Sciences

EESD18H3  Environmental Studies Seminar Series
This course will be organized around the DPES seminar series, presenting guest lecturers around interdisciplinary environmental themes. Students will analyze major environmental themes and prepare presentations for in-class debate. Same as ESTD18H3
Prerequisite: Enrollment in the Environmental Studies major program and 14.5 credits
Exclusion: ESTD18H3
Breadth Requirement: Natural Sciences

EESD19H3  Professional Development Seminars in Geoscience
This course consists of 12 lectures given by senior industry professionals to prepare students for a post-graduate career in environmental consulting. Lectures will convey the full range of consulting activities, including visits to environmental investigation sites in the GTA area. Technical writing and oral communication skills will be stressed in assignments.
Prerequisite: Students must be enrolled in the 4th year of their Environmental Science Program.
Breadth Requirement: Natural Sciences

EESD20H3  Urban Environmental Problems of the Greater Toronto Area
The world is increasingly urban and cities are the focus of many acute environmental problems e.g., disposal of solid and liquid wastes, and contamination of soil, air and water. These issues will be reviewed for the GTA with reference to various field and geophysical methods used to explore contaminated sites, environmental audits, government legislation and guidelines issued by regulatory agencies, and site cleanup. This course teaches essential applied skills to students in Environmental Science.
Prerequisite: 15.0 credits, including at least 4.0 credits at the C- or D-level
Exclusion: (EESC21H3)
Breadth Requirement: Natural Sciences
Environmental Science and Technology

Environmental Science and Technology Programs

SPECIALIST (JOINT) PROGRAM IN ENVIRONMENTAL SCIENCE AND TECHNOLOGY (SCIENCE)

Supervisor of Studies: Mandy Meriano (416-208-2775) Email: mmeriano@utsc.utoronto.ca

Enrolment in the Specialist (Joint) program in Environmental Science and Technology has been suspended indefinitely. Students who enrolled prior to the 2013 Summer Session should refer to the 2012/2013 UTSC Calendar.

Environmental Science and Technology Courses

STEB07H3 Analytical Chemistry and Applications
Quantitative analysis with pharmaceutical precision and accuracy to industrial and environmental protocols. Standard wet chemistry and instrumental techniques, data analysis and presentation. Conformity with health, safety and environmental regulatory requirements. Limited to students enrolled in the Joint Specialist Program in Environmental Science and Technology or the Joint Specialist Program in Applied Microbiology.
Prerequisite: IMCB03H3 or CHMA11H3 and permission of instructor
Note: CHMC11H3 or CHMB16H3 may be taken after STEB07H3, but STEB07H3 cannot be taken after CHMC11H3 or CHMB16H3
Exclusion: CHMC11H3, CHMB16H3.
Breadth Requirement: Natural Sciences

STEB21H3 Organic Chemistry and Applications
An introduction to the theory and practical applications of organic chemistry. An introduction to the principles of structure, properties identification and reactions of organic compounds as related to biology and other areas of science. Enrolment is limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: CHMA11H3
Exclusion: CHMB41H3 & CHMB42H3 Note: CHMB41H3 and CHMB42H3 may be taken after STEB21H3, but STEB21H3 may not be taken after CHMB41H3 or CHMB42H3.
Breadth Requirement: Natural Sciences

STEB40H3 Applied Environmental Microbiology
The principles of Environmental Biology: water, air and soil testing procedures. Analysis of contaminated and spiked samples using Ministry of Environment and Industry standards, procedures and protocols. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: BIOA02H3 & IMCB01H3
Breadth Requirement: Natural Sciences

STEB42H3 Water Quality Control
The characteristics of raw water and wastewater, water supply systems, sources of supply, methods of treatment, alternative sources of water and methods of distribution. The disposal of wastewater, the collection system and sewage treatment methods. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Breadth Requirement: Natural Sciences

STEB43H3 Engineering Equipment and Processes
Energy and mass in engineering systems, hydrostatics, fluid flow, Bernoulli’s theorem. Pumping systems, head losses through hydraulic systems, the efficiency of pumps and motors. Process equipment systems with emphasis on pumps, pipes and valves. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: PHYA10H3 or PHYA11H3
Breadth Requirement: Natural Sciences

STEB44H3 Environmental Legislation and Regulations
The concepts of law and legal process as they apply in Canada. The Ontario Environmental Protection Act and other environmental legislation. Research on selected Canadian statutes with a written report and oral presentation. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Breadth Requirement: Natural Sciences

STEC11H3 Applied Microbiological Analysis
The basic principles of Environmental Microbiology, immunology, molecular biology and genetics and toxicity testing using microorganisms. Laboratories are performed using current Ministry of Environment methodologies. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: STEB40H3
Breadth Requirement: Natural Sciences

STEC15H3 Applied Analytical Instrumentation
The theory and practices of chemical sampling and analysis used by the Ministry of Environment and Energy. The emphasis will be on the analysis of environmental samples using MOEE procedures and College equipment. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: CHMA11H3 & STEB07H3
Exclusion: CHMC16H3 Note: STEC15H3 may not be taken after CHMC16H3, but CHMC16H3 may be taken after STEC15H3.
Breadth Requirement: Natural Sciences

STEC53H3 Environmental Audits, Sampling and Data Management
Ministry approved Industrial Auditing protocols. The presentation and manipulation of graphs, spreadsheets and tests, using popular software titles. The ISO series, with emphasis on EMS and ISO 14001. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Exclusion: STEC53H3 may not be taken after or concurrently with EESC13H3.
Breadth Requirement: Natural Sciences
STEC60H3  Applied Hydrology and Spills Management
The movement of water in its natural state; techniques to measure and control the flow of surface and subsurface water. Current techniques to prevent contamination of subsurface water and surface water by chemical spills. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: EESB04H3 & STEB42H3
Breadth Requirement: Natural Sciences

STEC61H3  Hazardous Wastes and Modern Industrial Processes
Each student will be assigned research on a different pollutant, which might be one of the following: heavy metal ions in water, mercury, aromatic solvents, polymeric resins, PCB's, halogenated solvents, organic acids, Freon or pesticides. Limited to students enrolled in the Joint Specialist program in Environmental Science and Technology.
Prerequisite: CHMA11H3 & STEB21H3 & STEB07H3
Breadth Requirement: Natural Sciences

IMCB01H3  Microbiology Basics
See the Applied Microbiology (formerly Industrial Microbiology) section of this Calendar for a full description.
Environmental Studies

Faculty List

- G.B. Arhonditsis, B.Sc., M.Sc. (Agricultural Univ. of Athens, Greece), Ph.D. (Univ. of the Aegean, Greece), Professor
- S.C. Bunce, B.A. (Guelph), M.E.S. Pl. (York), Ph.D. (York), Assistant Professor
- R.R. Fulthorpe, B.Sc., M.Sc. (Toronto), Ph.D. (Carlton), Professor
- W.A. Gough, B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (McGill), Professor
- J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
- M. Hoffmann, B.S. (Michigan Technological University), Ph.D. (George Washington University), Associate Professor
- M.E. Isaac, B.Sc., M.Sc. (Guelph), Ph.D. (Toronto), Assistant Professor
- T. Kepe, B.Agric. (Fort Hare), M.Sc. (Guelph), Ph.D. (Western Cape), Associate Professor
- N. Klenk, B.Sc., M.Sc. (McGill), Ph.D. (UBC), Assistant Professor
- K. MacDonald, B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo), Assistant Professor
- C. Mitchell, B.Sc. (McMaster), M.Sc., Ph.D. (Toronto), Associate Professor
- T. Mohsin, B.Sc. (Dhaka), M.Sc. (Dhaka), M.E.S. (Newcastle), Ph.D. (Toronto), Lecturer
- R. Naraynareddy, MESC. (Yale University), Ph.D. (Minnesota), Assistant Professor

There is significant public and student interest in environmental issues. This major gives students an opportunity to develop an understanding of environmental issues from the perspectives of the physical, life and social sciences. It serves as an excellent companion to majors such as Anthropology, Human Geography, Political Science, Public Policy, Sociology, Chemistry, Biochemistry, Environmental Science, Biology, Biodiversity, Ecology and Evolution, Physics and Astrophysics, and Physical Sciences.

The program is designed as a contemporary rendering of the study of environmental problems, and one of its key features is the classification of the courses offered into Foundation & Skills and Capstone & Applications. The former group will build a foundation of socioeconomics and environmental science, while the latter group will integrate insights from different disciplines and nurture an interdisciplinary way of thinking. These courses also include many opportunities for experiential learning through problem-solving case studies, team-based projects and individual research. Special emphasis is placed on the capacity of the program to successfully build the requisite interdisciplinary, problem-solving skill sets needed when tackling environmental management issues. The program effectively balances the need for a strong foundation in the basic principles characterizing a typical program in Environmental Studies and the importance of building bridges among the various disciplines involved.

Environmental Studies Programs

MAJOR PROGRAM IN ENVIRONMENTAL STUDIES (ARTS)

Supervisor of Studies J, MacLellan (416-208-2661) Email: jim.maclellan@utoronto.ca

Companion majors include: Anthropology, Human Geography, Political Science, Public Policy, Sociology, Biology, Biodiversity, Ecology and Evolution, Chemistry, Biochemistry, and Environmental Science, Physics and Astrophysics, and Physical Sciences. Other majors are possible with permission of the Supervisor of Study.

Program Requirements

Completion of 8.5 credits as follows:

1. Core Courses (2.5 credits)
   EESA01H3 Introduction to Environmental Science
   [MGEA01H3/(ECMA01H3) Introduction to Microeconomics or MGEA05H3/(ECMA05H3) Introduction to Macroeconomics]
   ESTB01H3 Introduction to Environmental Studies
   and 0.5 credit chosen from:
   - ANTB01H3 Political Ecology
   - GGRA03H3 Cities and Environments
   - POLA01H3 Critical Issues in Politics I
   - POLA02H3 Critical Issues in Politics II
   - POLB08H3 Introduction to International Relations I
   and 0.5 credit chosen from:
   - EESA06H3 Introduction to Planet Earth
   - EESA07H3 Water
   - EESA09H3 Wind
   - EESA10H3 Human Health and the Environment
   - EESA11H3 Environmental Pollution
   - EESB18H3 Natural Hazards

2. Foundations & Skills (4.0 credits)
Environmental Studies Courses

**ESTB01H3 Introduction to Environmental Studies**
This course introduces the Environmental Studies major and the interdisciplinary study of the environment through a team-teaching format. Students will explore both physical and social science perspectives on the environment, sustainability, environmental problems and their solutions. Emphasis will be on critical thinking, problem solving, and experiential learning.

Prerequisite: Enrolment in the Environmental Studies major program
Breadth Requirement: Social & Behavioural Sciences

**ESTC34H3 Sustainability in Practice**
This course is intended for students who would like to apply theoretical principles of environmental sustainability learned in other courses to real world problems. Students will identify a problem of interest related either to campus sustainability, a local NGO, or municipal, provincial, or federal government. Class meetings will consist of group discussions investigating key issues, potential solutions, and logistical matters to be considered for implementation of proposed solutions. Students who choose campus issues will also have the potential to actually implement their solutions. Grades will be based on participation in class discussions, as well as a final report and presentation.

Same as EESC34H3

Prerequisite: Enrolment in the Environmental Studies major program and 9.5 credits
Exclusion: EESC34H3
Breadth Requirement: Natural Sciences

**ESTC35H3 Environmental Science and Technology in Society**
In this course students will engage critically, practically and creatively with environmental controversies and urgent environmental issues from the standpoint of the sociology of science and technology (STS). This course will contribute to a better understanding of the social and political construction of environmental science and technology.

Prerequisite: ESTB01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Environmental Studies Program. Additional students will be admitted as space permits.

**ESTC36H3 Knowledge, Ethics and Environmental Decision-Making**
Most environmental issues have many sides including scientific, social, cultural, ethical, political, and economic. Current national, regional and local problems will be discussed in class to help students critically analyze the roots of the problems and possible approaches to decision-making in a context of pluralism and complexity.

Prerequisite: ESTB01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Environmental Studies Program. Additional students will be admitted as space permits.

**ESTD16H3 Project Management in Environmental Studies**
Students will select a research problem in an area of special interest. Supervision will be provided by a faculty member with active research in geography, ecology, natural resource management, environmental biology, or geosciences as represented within the departments. Project implementation, project monitoring and evaluation will form the core elements for this course.

Same as EESD16H3

Prerequisite: Enrolment in the Environmental Studies major program and 14.5 credits
Exclusion: EESD16H3
Environmental Studies

Breadth Requirement: Natural Sciences

**ESTD17Y3 Cohort Capstone Course in Environmental Studies**
This course is designed to provide a strong interdisciplinary focus on specific environmental problems including the socioeconomic context in which environmental issues are resolved. The cohort capstone course is in 2 consecutive semesters, providing final year students the opportunity to work in a team, as environmental researchers and consultants, combining knowledge and skill-sets acquired in earlier courses. Group research to local environmental problems and exposure to critical environmental policy issues will be the focal point of the course. Students will attend preliminary meetings schedules in the Fall semester.

Same as EESD17Y3
Prerequisite: Enrolment in the Environmental Studies major program and 14.5 credits
Exclusion: EESD17Y3
Breadth Requirement: Natural Sciences

**ESTD18H3 Environmental Studies Seminar Series**
This course will be organized around the DPES seminar series, presenting guest lecturers around interdisciplinary environmental themes. Students will analyze major environmental themes and prepare presentations for in-class debate.

Same as EESD18H3
Prerequisite: Enrolment in the Environmental Studies major program and 14.5 credits
Exclusion: EESD18H3
Breadth Requirement: Natural Sciences
Food Studies

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. To understand the place of food in society, students in this program will draw on a number of disciplinary methodologies, including anthropology, ecology, gender studies, geography, history, nutrition, and sociology. 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. Courses will span all of human history, from our foraging ancestors to the contemporary industrial food system, and around the world, examining diverse cultural traditions of farming, cooking, and eating. Students will learn the importance of food in religion, society, the family, gender roles, the environment, urbanization, immigration, colonialism, and race and ethnicity. The program will also leverage the university’s urban location to use Scarborough as a classroom to understand the rich traditions and special challenges involved in feeding diasporic communities. 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.

Food Studies courses draw on a variety of disciplinary approaches emphasizing different knowledge and skills. FSTB01H3 Introduction to Food Studies, provides the foundations for study of food with the principles and methods of nutrition, agro-ecology, ethnography, and textual analysis. Other B-level courses offer discipline-specific approaches to food in Anthropology, Ecology, History, and Politics. In C-level courses, students have the opportunity to pursue additional disciplinary approaches while also focusing on more specific thematic topics. D-level courses are conducted as seminars, where students make close and thorough studies of particular questions and present their findings in discussions, essays, and digital projects. Food studies courses emphasize experiential learning, and many are taught in the Culinaria Kitchen Laboratory and community-engaged learning, where students have the opportunity to taste and cook foods from around the world and throughout history. For updates and detailed information regarding Food Studies please visit the program website at: www.utsc.utoronto.ca/~humdiv/prg_fs.html

Food Studies Courses:

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<thead>
<tr>
<th>B-level</th>
<th>C-level</th>
<th>D-level</th>
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<tbody>
<tr>
<td>ANTB64H3 The Anthropology of Food</td>
<td>HISCO4H3 Drink in History</td>
<td>GASD71H3 Cuisine, Culture, and Societies</td>
</tr>
<tr>
<td>BIOB38H3 Plants and Society</td>
<td>HISCO5H3 Feeding the City, from Babylon to Brampton</td>
<td>Across Global Asia*</td>
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<tr>
<td>EESB16H3 Feeding Humans –the Cost to the Plant</td>
<td>HISC29H3 Global Commodities: Nature, Culture, History</td>
<td>HISD70H3 History of Empire and Foods*</td>
</tr>
<tr>
<td>HISB14H3 Edible History: History of Global Foodways</td>
<td>IDSC14H3 The Political Economy of Food</td>
<td>HISD71H3 Culinary Ethnography*</td>
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<td>WSTC24H3 Gender in the Kitchen</td>
<td>HISD72H3 History of Beer and Brewing*</td>
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<td>*Course is taught in the Culinaria Kitchen Laboratory</td>
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Note: Students are advised to consult the prerequisites for B-, C-, and D-level courses when planning their individual program.

Food Studies Programs

MINOR PROGRAM IN FOOD STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete at least 4.0 credits in Food Studies-focused courses, including the following:

1. FSTB01H3 Introduction to Food Studies
2. At least 2.0 credits in C- or D-level courses
3. 0.5 credit at the D-level in courses taught in the Culinaria Kitchen Laboratory*

*See the table above for courses taught in the Culinaria Kitchen Laboratory.

Food Studies Courses

FSTB01H3 Introduction to Food Studies
This introductory course, which is a requirement in the Minor in Food Studies, provides students with the basic content and methodological training they need to understand the connections between food, culture, and society. Using a food biography perspective for a culinary icon of...
Food Studies

Scarborough, the class will examine the material, ecological, and political foundations of the global food system as well as the ways that food shapes personal and collective identities of race, class, gender, and nation. Tutorials will meet in the Culinaria Kitchen Laboratory.
Breadth Requirement: History, Philosophy & Cultural Studies
French

Faculty List

- C. Beauquis, M.A., Ph.D. (Western), Associate Professor, Teaching Stream
- C. Bertrand-Jennings, L. ès L. (Paris), Ph.D. (Wayne State), Professor Emerita
- L.E. Doucette, B.A. (London), Ph.D. (Brown), Professor Emeritus
- S. Drouin, Ph.D. (Laval & Versailles/Saint-Quentin-en-Yvelines), Assistant Professor
- J. English, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- K. McCrindle, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- S. Mittler, M.A. (Toronto), Ph.D. (Strasbourg), Associate Professor
- F. Mugnier, M.A. (Lyon), Ph.D. (Grenoble), Senior Lecturer Emerita
- J. Ndayiragije, M.A. (Montreal-UQAM), Ph.D. (Montreal-UQAM), Associate Professor
- P. Riendeau, M.A., Ph.D. (Montreal), Associate Professor
- M. Tsimenis, B.A. (Athens), M.A., Ph.D. (Montreal), Associate Professor, Teaching Stream

Director: Karen McCrindle (cfldirector@utsc.utoronto.ca)
Associate Director: Corinne Beauquis (beauquis@utoronto.ca)

For curriculum inquiries please contact the CFL Undergraduate Assistant. Email: cfl-ua@utsc.utoronto.ca

Studies in French allow for a wide range of interests: the enhancement of practical language skills, including translation, and pronunciation (FREB08H3, FREB17H3, FREB44H3, FREC18H3); the study of how the language is structured (FREB45H3, FREC46H3, FREC47H3); the development of approaches to the teaching of French (FREB11H3, FREB20H3, FREC11H3); and the exploration of the rich literatures and cultures of French Canada, France and other parts of the francophone world.

The following Programs are offered at University of Toronto Scarborough: a Minor program in French; a Major program in French; and a Specialist program in French.

Guidelines for course selection

French studies normally begin with FREA01H3 Language Practice I, which serves to consolidate previous knowledge, and is the prerequisite for more advanced courses in all areas. FREA01H3 is designed primarily for students with Grade 12 French or equivalent competence. Those who have significant "immersion" or "enriched" high school experience, or who have native or near-native abilities in French, should consult the faculty member responsible for FREB01H3 or FREC01H3 about the appropriate entry course(s). Students without Grade 12 French may wish to take FREA96H3 Introductory French I, FREA97H3 Introductory French II, FREA98H3 Intermediate French I or FREA99H3 Intermediate French II- see below for further recommendations.

Guidelines for course selection

French studies normally begin with FREA01H3 Language Practice I, which serves to consolidate previous knowledge, and is the prerequisite for more advanced courses in all areas. FREA01H3 is designed primarily for students with Grade 12 French or equivalent competence. Those who have significant "immersion" or "enriched" high school experience, or who have native or near-native abilities in French, should consult the faculty member responsible for FREB01H3 or FREC01H3 about the appropriate entry course(s). Students without Grade 12 French may wish to take FREA96H3 Introductory French I, FREA97H3 Introductory French II, FREA98H3 Intermediate French I or FREA99H3 Intermediate French II- see below for further recommendations.

Students with a Grade 12 French credit should proceed directly to FREA01H3 and higher-level courses (some exceptions may apply with the permission of the Director of the Centre for French and Linguistics). Students' level of proficiency will be assessed by the course instructor during the first week of classes. Note that the Language Practice courses FREA01H3 & FREA02H3, FREB01H3 & FREB02H3, FREC01H3 & FREC02H3 and FRED01H3 & FRED06H3 must be taken in sequence. Normally, an A-level FRE course should not be taken at the same time as, or after, a B-level FRE course. Please do not hesitate to consult the CFL Undergraduate Assistant and other faculty members for further advice about course selection and Programs.

Enrolment Recommendations:

- For students who took French all throughout high school in the Ontario school system (grades 9-12): FREA01H3
- For students who took French up to grade 11 in the Ontario school system: FREA99H3
- For students who took French up to grade 10 in the Ontario school system: FREA98H3
- For students who took French up to grade 9 in the Ontario school system: FREA96H3 or FREA97H3
- For students with no previous experience in French, students who are new to Canada, or students who took grade 9 French in the Ontario system but have been out of school for 5+ years: FREA96H3

Please consult with our Associate Chair of French if you have any further questions or would like further guidance on enrolment in the above mentioned courses. Do note that during the first week of classes for each respective semester, the instructor reserves the right to remove students (with recommendation) if their proficiency is above or below the expectations for the class.

The Study Elsewhere Program offers ideal opportunities for students of French to earn academic credit while studying in another province or country. For further information about this Program and about Letters of Permission, please refer to "Study at Other Universities" in this Calendar, and speak to our Undergraduate Assistant.

Students with Grade 12 French who took Summer Bursary Program courses prior to attending U of T must see the Associate Director of French during the first week of classes. After assessing the course, the Associate Director will advise the student as to the appropriate level in which to register. Failure
to seek advice at that time may result in a loss of credit to which the student is entitled.

Students must consult the Associate Director of French about possible exclusions if they are considering registering in French courses in the Faculty of Arts and Science or at University of Toronto Mississauga. Failure to do so may leave the student short a course for degree credit and thus delay graduation and increase tuition fees.

**Language Citation**

U of T Scarborough offers a growing range of language opportunities and, as students seek international study, work opportunities and post-graduate study, they may be assisted by a notation of language proficiency. The Language Citation provides that notation. See the Language Citation section of the Calendar for more information.

**St. George Equivalencies**

- FREA96H3 and FREA97H3: FSL100H and FSL102H
- FREA98H3 and FREA99H3: FSL121Y
- FREA01H3 and FREA02H3: FSL221Y
- FREB01H3 and FREB02H3: FSL321Y
- FREC01H3 and FREC02H3: FSL421Y
- FRED01H3 and FRED06H3: FSL442H and FSL443H

**Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching**

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

**The Combined Degree Programs options include:**

- French (Specialist), Honours Bachelor of Arts/ Master of Teaching
- French (Specialist Co-op), Honours Bachelor of Arts/ Master of Teaching
- French (Major), Honours Bachelor of Arts/ Master of Teaching
- French (Major Co-op), Honours Bachelor of Arts/ Master of Teaching

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

**French Programs**

**SPECIALIST PROGRAM IN FRENCH (ARTS)**

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

This program is designed to provide students with a fundamental knowledge and grasp of principles and practices in core areas of French: language, grammar, linguistics, literature and culture.

Enrolment in the CTEP program in French has been suspended indefinitely. Students who enrolled at UTSC prior to the 2014 Summer Session should refer to the 2013/14 UTSC Calendar.

**Program Requirements**

This program requires 12.0 credits as follows including at least 4.0 credits at the C- or D-level of which at least 1.0 must be at the D-level:

1. **4.0 credits consisting of:**
   - FREA01H3 Language Practice I
   - FREA02H3 Language Practice II
   - FREA03H3 Language Practice III
   - FREA04H3 Language Practice IV
   - FREB01H3 Language Practice V
   - FREB02H3 Language Practice VI
   - FREB03H3 Language Practice VII: Written French
   - FREB04H3 Language Practice VIII: Oral French
   (Except where substitution of other French credits is permitted for students with special proficiency in the French language)

2. **2.0 credits selected from:**
   - FREB04H3 Introduction to Linguistics: French Phonetics and Phonology (taught in French)
   - FREB05H3 Introduction to Linguistics: French Morphology and Syntax (taught in French)
   - FREB06H3 History of the French Language (taught in French)
FREC12H3 Semantics: The Study of Meaning (taught in English)
FREC46H3 Syntax II (taught in English)
FREC47H3 Pidgin and Creole Languages (taught in English)
FREC48H3 Sociolinguistics of French (taught in French)
(FRED49H3) French Semantics

3. 1.5 credits selected from:
   FREB22H3 The Society and Culture of Québec
   FREB27H3 Modern France
   FREB28H3 The Francophone World
   FREB70H3 Cinema of the French-Speaking World
   FREB84H3 Folktales, Myth, and the Fantastic in the French-Speaking World
   FREC54H3 Paris Through the Ages
   FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World

4. 3.0 credits in literature which must include:
   (a) FREB50H3 Introduction to French Literature I
   (b) FREB35H3 Francophone Literature
   (c) 1.0 credit in literature from Québec, selected from the following:
       FREB36H3 The 20th Century Québec Novel
       FREB37H3 Contemporary Québec Drama
       FREC38H3 Topics in the Literature of Québec
       FRED14H3 Advanced Topics in the Literature of Québec
   (d) 1.0 credit in French Literature, selected from the following:
       FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century
       FREB55H3 Literary History in Context: 18th and 19th Centuries
       FREC57H3 French Fiction of the 19th Century
       FREC58H3 Literature of the Ancienne Regime
       FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in France
       FREC64H3 French Fiction of the 20th and 21st Centuries
       FRED13H3 Advanced Topics in French Literature

5. 1.5 additional credits in French from either the above-mentioned courses (where not already taken) or from the list below:
   FREB08H3 Practical Translation I
   FREB11H3 French Language in the School System
   FREB17H3 Spoken French: Conversation and Pronunciation
   FREB18H3 Business French
   FREB20H3 Teaching Children's Literature in French
   FREC11H3 Teaching French as a Second Language
   FREC18H3 Translation for Business and Professional Needs

   Note: Specialist students (including CTEP) cannot obtain more than 0.5 credit (out of 12.0) by taking a course in English. This does not include CTEP courses taught in English through OISE.

MAJOR PROGRAM IN FRENCH (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 8.0 credits in French, of which at least 2.0 credits must be at the C- or D-level, including:

1. 3.5 credits as follows:
   FREA01H3 Language Practice I
   FREA02H3 Language Practice II
   FREB01H3 Language Practice III
   FREB02H3 Language Practice IV
   FREC01H3 Language Practice V
   FREC02H3 Language Practice VI
   FRED01H3 Language Practice VII: Written French or FRED06H3* Language Practice VIII: Oral French
   (Students with special proficiency in the French language may substitute other FRE courses with the permission of the Associate Chair)

2. 1.0 credit in Linguistics:
   Linguistics courses taught in French are:
   FREB44H3 Introduction to Linguistics: French Phonetics and Phonology
   FREB45H3 Introduction to Linguistics: French Morphology and Syntax
   FREB46H3 History of the French Language
   FREC48H3 Sociolinguistics of French
   Linguistics courses taught in English are:
French

FREC12H3 Semantics: The Study of Meaning
FREC46H3 Syntax II
FREC47H3 Pidgin and Creole Languages

1. 1.0 credit in Culture:
   Culture courses are:
   FREB22H3 The Society and Culture of Québec
   FREB27H3 Modern France
   FREB28H3 The Francophone World
   FREB70H3 Cinema of the French-Speaking World
   FREB84H3 Folktale, Myth and the Fantastic in the French-Speaking World
   FREC54H3 Paris Through the Ages
   FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World

2.5 additional credits in French as follows:
   A) FREB50H3 Introduction to Literature in French I
   B) 1.0 credit in French Literature taken from the following:
      FREB35H3 Francophone Literature
      FREB36H3 The 20th Century Québec Novel
      FREB37H3 Contemporary Québec Drama
      FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century
      FREB55H3 Literary History in Context: 18th and 19th Centuries
      FREC38H3 Topics in the Literature of Québec
      FREC58H3 Literature of the Ancien Regime
      FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French
      FREC64H3 French Fiction of the 20th and 21st Centuries
      FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World
   C) 1.0 credit in French courses not already taken

Note: At the A-level, only FREA01H3 and FREA02H3 may be counted towards a French Program.

Note: For Co-op opportunities related to the Major Program in French please see the Humanities and Social Sciences Co-operative section in this Calendar.

Note: Major students cannot obtain more than 0.5 credit (out of 8.0) by taking a course taught in English.

MINOR PROGRAM IN FRENCH (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students should complete four full credits including: FREA01H3, FREA02H3, FREB01H3 and FREB02H3, plus two further credits in French. At least one full credit must be at the C-level.

French Courses

FREA01H3 Language Practice I
Reinforcement and development of the language skills - understanding, reading, writing and speaking - necessary for higher-level courses. The course includes grammar review (written and oral), various exercises both traditional and internet-based, and reading and discussion of texts from different francophone cultures. FREA01H3 is a prerequisite for all B-level courses.
Prerequisite: Grade 12 French or FREA99H3 or equivalent.
Exclusion: (LGGA21H3), (LGGA22H3), (LGGB23H3), (LGGB24H3), FSL100H or equivalent
Breadth Requirement: Arts, Literature & Language

FREA02H3 Language Practice II
A continuation of FREA01H3.
Prerequisite: FREA01H3
Exclusion: Native or near-native fluency in French; (FREA10Y3), (FSL161Y), (FSL181Y), FSL221Y
Breadth Requirement: Arts, Literature & Language
NOTE: FREA02H3 is a prerequisite for all B-level French courses

FREA96H3 Introductory French I
An intensive basic course in written and spoken French; comprehension, speaking, reading and writing.
This intensive, practical course is designed for students who have no previous knowledge of French.
Exclusion: (LGGA21H3), (LGGA22H3), (LGGB23H3), (LGGB24H3), FSL100H or equivalent
Enrolment Limits: 30 per section
Breadth Requirement: Arts, Literature & Language
FREA97H3 Introductory French II
An intensive course in written and spoken French; a continuation of FREA96H3.
This course is designed for students who have some knowledge of French. It continues the basic, comprehensive training in both written and oral French begun in FREA96H3, using the second half of the same textbook.
Prerequisite: FREA96H3 or (LGGA21H3)
Exclusion: (LGGA22H3), FSL102H or equivalent.
Enrolment Limits: 30 per section
Breadth Requirement: Arts, Literature & Language

FREA98H3 Intermediate French I
Intended for students who have studied some French in high school or have some knowledge of French. Offers a review of all basic grammar concepts and training in written and spoken French. Reinforces reading comprehension, written skills and oral/aural competence.
Prerequisite: FREA97H3 or (LGGA22H3)
Exclusion: FSL121Y, (LGGB23H3) or equivalent
Enrolment Limits: 30 per section
Breadth Requirement: Arts, Literature & Language

FREA99H3 Intermediate French II
Intended for students who have some knowledge of French and who wish to bring their proficiency up to the level of normal University entrance; a continuation of FREA98H3: prepares students for FREA01H3. Offers training in written and spoken French, reinforcing reading comprehension, written skills and oral/aural competence.
Prerequisite: FREA98H3, (LGGB23H3) or equivalent
Exclusion: Grade 12 French, (LGGB24H3), FSL121Y or equivalent
Cannot be taken concurrently or after FREA01H3.
Enrolment Limits: 30 per section
Breadth Requirement: Arts, Literature & Language

FREB01H3 Language Practice III
This course is concerned with the development of fluency, accuracy of expression and style through the study of grammar, composition, aural/oral practice and a variety of readings. Course work can be supplemented by audio and videotapes.
Prerequisite: [FREA01H3 and FREA02H3] or equivalent
Exclusion: (FSL261Y), (FSL281Y), FSL321Y, (FSL331Y), (FSL341Y) or equivalent or native proficiency
Breadth Requirement: Arts, Literature & Language

FREB02H3 Language Practice IV
A continuation of FREB01H3.
Prerequisite: FREB01H3
Exclusion: (FSL261Y), (FSL281Y), FSL321Y, (FSL331Y), (FSL341Y) or equivalent or native proficiency
Breadth Requirement: Arts, Literature & Language

FREB08H3 Practical Translation I
An introduction to translation. The course will use a wide selection of short texts dealing with a variety of topics. Grammatical and lexical problems will be examined with special attention to interference from English.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent
Exclusion: Native proficiency. FREB08H3 may not be taken after or concurrently with FREC18H3, FREQ480Y or FREQ481Y.
Breadth Requirement: Arts, Literature & Language

FREB11H3 French Language in the School System
This course is intended for students considering a career in language teaching.
It involves a series of seminars as well as preparation for observations in local schools throughout the duration of the course.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Breadth Requirement: Arts, Literature & Language
NOTE: Students taking this course will need to have a police check completed with the police board in the jurisdiction for which they reside. Completed police checks must be submitted to the instructor during the first day of class.

FREB17H3 Spoken French: Conversation and Pronunciation
Designed for students who wish to improve their speaking abilities. The course examines the French sound system with the goal of improving students' pronunciation in reading and everyday speech. Theoretical concepts are put into practice via structured exercises and various dialogues involving useful colloquial expressions.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent
Breadth Requirement: Arts, Literature & Language

FREB18H3 Business French
The French language in a commercial or economic context. Of interest, among others, to students in French, Business, Accounting, Management, and Economics, this course emphasizes commercial writing techniques and exercises that include the vocabulary and structures of business language.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Exclusion: FSL366H
Breadth Requirement: Arts, Literature & Language

FREB20H3 Teaching Children's Literature in French
An analysis of the varied forms and contents of children's literature written in French. The course examines different texts in terms of target age, pictorial illustrations, didactic bent, socio-cultural dimensions etc., focusing on, among other things, fairy tales urban and otherwise, cartoons, detective stories, adventure tales, and art, science and history books.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent
Exclusion: FRE385H
Breadth Requirement: Arts, Literature & Language

FREB22H3 The Society and Culture of Québec
A study of the historical, cultural and social development of Québec society from its origins to today. Aspects such as history, literature, art, politics, education, popular culture and cinema will be examined. Emphasis will be placed on the elements of Québec culture and society that make it a distinct place in North America.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Breadth Requirement: History, Philosophy & Cultural Studies

FREB27H3 Modern France
An examination of political, social and cultural developments in France in the last hundred years. Topics will include: the impact of two World Wars; the decolonization process; the European Community; the media; the educational system; immigration etc.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Breadth Requirement: History, Philosophy & Cultural Studies

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FREB28H3 The Francophone World
An examination of historical, political and cultural realities in different parts of the Francophone world excluding France and Canada. Topics to be discussed will include slavery, colonization, de-colonization and multilinguism.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Exclusion: FSL362Y
Breadth Requirement: History, Philosophy & Cultural Studies

FREB35H3 Francophone Literature
A study of a variety of literary texts from the French-speaking world, excluding France and Canada. Attention will be given to the cultural and historical background as well as to the close study of works from areas including the West Indies, North and West Africa.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Exclusion: FRE332H
Breadth Requirement: Arts, Literature & Language

FREB36H3 The 20th Century Québec Novel
A study of some of the major novels written in Québec since 1945. The course will focus on the evolution of the novelistic form and its relevance within modern Western literature. We will also examine the link between the novels studied and the transformation of Québec society.
Prerequisite: FREA01H3 & FREA02H3
Exclusion: FRE210Y
Breadth Requirement: Arts, Literature & Language

FREB37H3 Contemporary Québec Drama
An examination of contemporary Québec theatre. We will study texts representative of a variety of dramatic styles. The focus will be primarily on dramatic texts; significant theatrical performances, however, will also be considered.
Prerequisite: FREA01H3 & FREA02H3
Exclusion: FRE312H
Breadth Requirement: Arts, Literature & Language

FREB44H3 Introduction to Linguistics: French Phonetics and Phonology
An examination of the sound system of modern French. The course will acquaint student with acoustic phonetics and the basic concept and features of the French phonetic system. Phonological interpretation of phonetic data (from speech samples) and prosodic features such as stress and intonation will be examined.
Prerequisite: [FREA01H3 and FREA02H3] or equivalent.
Exclusion: FREA01H3 & FREA02H3
Breadth Requirement: Arts, Literature & Language

FREB45H3 Introduction to Linguistics: French Morphology and Syntax
An examination of the internal structure of words and sentences in French.
Covered are topics including word formation, grammatical categories, syntactic structure of simple and complex clauses, and grammatical relations of subject, predicate and complement.
This course complements (FREB43H3) and FREB44H3.
Prerequisite: [FREA01H3 and FREA02H3]
Exclusion: FREA01H3 & FREA02H3
Breadth Requirement: Arts, Literature & Language

FREB46H3 History of the French Language
An introduction to the origin and development of French, from the Latin of the Gauls to current varieties of the language. The course examines the internal grammatical and phonological history undergone by the language itself as well as the external history which includes ethnic, social, political, technological, and cultural changes.
Prerequisite: FREA01H3 and FREA02H3
Exclusion: FRE273H, FRE372H, FRE373H
Breadth Requirement: Arts, Literature & Language

FREB50H3 Introduction to Literature in French I
A study of representative texts from the three major literary genres (fiction, drama, poetry). The course will introduce students to the critical reading of literary texts in French; students will acquire the basic concepts and techniques needed to analyze literature.
Prerequisite: [FREA01H3 and FREA02H3] or equivalent.
Corequisite: FREA01H3
Exclusion: FRE240Y
Breadth Requirement: Arts, Literature & Language
NOTE: FREB50H3 is a pre-requisite for all other French Literature courses at the B-, C-, and D-level.

FREB51H3 Literary History in Context: From the Middle Ages to the 17th Century
A study of the evolution of the major trends of French literature from the Middle Ages to the 17th century through representative texts (short novels, poetry and short stories) selected for their historical relevance and literary importance.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Exclusion: FRE250Y
Breadth Requirement: Arts, Literature & Language

FREB55H3 Literary History in Context: 18th and 19th Centuries
A study of the evolution of the major trends of French literature from the 18th and 19th centuries through representative texts (short stories, poetry and novels), selected for their historical relevance and literary importance. Students will also learn to use some tools required for text analysis and will apply them in context.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Exclusion: FRE250Y
Breadth Requirement: Arts, Literature & Language

FREB70H3 Cinema of the French-Speaking World
An examination of films that have had a major impact on the development of the French-Speaking world cinema.
We will study motion pictures from France, Québec and other parts of the francophone world that have made a significant contribution to both modern cinematography and Western culture.
Prerequisite: FREA01H3 & FREA02H3 or equivalent.
Breadth Requirement: Arts, Literature & Language

FREB84H3 Folktales, Myth and the Fantastic in the French-Speaking World
An examination of the imagined/imaginative in cultures and belief systems in the francophone world. Myths and folktales from Canada, the U.S., French Guyana, North and West Africa will be examined in terms of form, function, psychological dimensions and cultural interpretations of, for instance, life, death, food and individualism.
Prerequisite: [FREA01H3 & FREA02H3] or equivalent.
Breadth Requirement: Arts, Literature & Language
FREC01H3 Language Practice V
The purpose of the course is to improve the student's written, listening and oral skills. The course will focus on acquisition of the appropriate means of expression through practice in text summary, composition, error analysis, review of specific grammar points and discussion of recorded material, articles and films. Prerequisite: [FREB01H3 & FREB02H3] or equivalent. Exclusion: (FSL361Y), (FSL382H), (FSL383H), FSL421Y, FSL431Y or equivalent. Breadth Requirement: Arts, Literature & Language

FREC02H3 Language Practice VI
A continuation of FREC01H3. Prerequisite: FREC01H3 Exclusion: (FSL361Y), (FSL382H), (FSL383H), FSL421Y, FSL431Y or equivalent. Breadth Requirement: Arts, Literature & Language

FREC11H3 Teaching French as a Second Language
A study of different theories of language teaching and learning and their application to the teaching of French as a second language. Prerequisite: [[FREB01H3 and FREB02H3] or equivalent] & FREB11H3 Exclusion: FRE384H Breadth Requirement: Arts, Literature & Language

FREC12H3 Semantics: The Study of Meaning
An introduction to the role of meaning in the structure, function and use of language. Approaches to the notion of meaning as applied to English and French data will be examined. Same as LINC12H3 Taught in English Prerequisite: LINA01H3 or [FREB44H3 and FREB45H3] Exclusion: LINC12H3, FRE386H, LIN241H3, LIN341H, (FREC49H3), (FRED49H3) Breadth Requirement: History, Philosophy & Cultural Studies

FREC18H3 Translation for Business and Professional Needs
Practice in translating commercial, professional and technical texts. Students will have the opportunity to widen their knowledge of the vocabulary and structures particular to the language of business as well as to such fields as industrial relations, insurance, software, health care, social work and finance. Prerequisite: [FREB01H3 & FREB02H3] & [FREB08H3 or (FREB09H3)] or equivalent. Exclusion: FREC18H3 may not be taken after or concurrently with FRE480Y or FRE481Y. Breadth Requirement: Arts, Literature & Language

FREC36H3 Syntax II
Core issues in syntactic theory, with emphasis on universal principles and syntactic variation between French and English. Same as LINC11H3. Taught in English. Prerequisite: FREB45H3 or LINB06H3 Exclusion: FRE378H, LIN232H, LIN331H, LINC11H3 Breadth Requirement: Arts, Literature & Language

FREC47H3 Pidgin and Creole Languages
A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion. Same as LINC47H3 Taught in English Prerequisite: FREB01H3 or FREB02H3 or equivalent Exclusion: LINC47H3 Breadth Requirement: Arts, Literature & Language

FREC48H3 Sociolinguistics of French
An exploration of the relationship between language and society within a francophone context. We examine how language use is influenced by social factors. Topics include dialect, languages in contact, language shift, social codes and pidgin and Creole languages. Fieldwork is an integral part of this course. Prerequisite: [FREB01H3 and FREB02H3] or [FREB44H3 and FREB45H3] Exclusion: LINB20H3, (LINB21H3) Breadth Requirement: Social & Behavioural Sciences

FREC54H3 Paris Through the Ages
This course is designed to provide students with an introduction to Paris' great monuments, buildings, streets, and neighbourhoods through art history (painting, sculpture, and architecture), music, and literature from the Middle ages to the beginning of the 20th century. Prerequisite: FREB27H3 or FREB50H3 Breadth Requirement: History, Philosophy & Cultural Studies

FREC57H3 French Fiction of the 19th Century
This course will examine themes and literary techniques in various forms of narrative prose from across the 19th century. Attention will also be paid to the historical and sociocultural context in which these works were produced. Prerequisite: [FREB01H3 and FREB02H3] and [FREB50H3 or equivalent] Exclusion: (FREC56H3) Breadth Requirement: Arts, Literature & Language

FREC58H3 Literature of the Ancien Régime
An introduction to major French writers from the 16th century (Rabelais, Montaigne), 17th century (Corneille, Molière, La Fontaine) or 18th century (Voltaire, Rousseau, Diderot). Students will learn skills required for textual analysis and will apply them to the cultural and intellectual context of literature from the Ancien Régime. Prerequisite: FREB50H3 Exclusion: FRE319H and FRE320H Breadth Requirement: Arts, Literature & Language
French

FREC63H3 Topics in French Literature: Encountering Foreign Cultures: Travel Writing in French
An examination of the trends and attitudes embodied in French travel writing over time. The course considers aspects of utopianism, cosmopolitanism, exoticism, imperialism, postcolonialism and ethnography in fictional and non-fictional narratives set 'elsewhere'. Selections are drawn from writers such as Lahontan, Gautier, Nerval, Gide, Loti, Segalen, Camus, Bouvier and Baudrillard.
Prerequisite: [FREB01H3 & FREB02H3] & [FREB50H3 or equivalent]
Breadth Requirement: Arts, Literature & Language

FREC64H3 French Fiction of the 20th and 21st Centuries
This course will examine French texts, such as comic writing, women's writing, postmodern and postcolonial works, autobiographical works, and fantasy.
Prerequisite: FREB50H3 or equivalent
Exclusion: (FREC61H3)
Breadth Requirement: Arts, Literature & Language

FREC83H3 Cultural Identities and Stereotypes in the French-Speaking World
The history and development of perceptions of "us" and "them" in France and the francophone world. The course examines language and culture, and the historic role of Eurocentrism and colonialism in the construction of cultural stereotypes. "Others" considered include the "noble savage", the "Oriental", the "country bumpkin" and the "foreigner". This course was formerly taught in English, but will now be taught in French.
Prerequisite: [FREB01H3 & FREB02H3] or equivalent, and one of FREB22H3, FREB27H3 and FREB28H3 or equivalent.
Breadth Requirement: History, Philosophy & Cultural Studies

FRED01H3 Language practice VII: Written French
Through a review of major grammar points and the development of the necessary techniques for the production of various types of discourse (argumentative essays, summarizing, critiquing, etc.), students will be guided to work on accuracy and logical structure in written French.
Prerequisite: FREC02H3 or equivalent
Exclusion: FSL431Y, FSL461Y, FSL442H or equivalent
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

FRED02H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.

FRED03H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.

FRED04H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.

FRED05H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course's objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student's previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.

FRED06H3 Language Practice VIII: Oral French
An advanced language course designed for students who want to consolidate their oral/aural skills. In-class discussions, debates and oral presentations will enhance their fluency, expand their vocabulary and improve their pronunciation. FRED06H3 is offered as a service-learning course.
Prerequisite: FREC02H3 or equivalent.
Exclusion: FSL443H or equivalent
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language
FRED07H3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course’s objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student’s previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.

FRED13H3 Advanced Topics in French Literature
Topics will vary from year to year. This seminar provides intensive study of a specific aspect of French literature from France. Emphasis may be placed on the importance of a particular movement or theme that will be explored in a variety of genres (novels, short stories, essays, autobiographies) and different authors. This course will require student participation and will involve a major paper.
Prerequisite: FREB50H3 and at least 0.5 credit at the C-level in FRE literature courses
Breadth Requirement: Arts, Literature & Language

FRED14H3 Advanced Topics in the Literature of Québec
The focus of this seminar will vary from year to year and may examine one specific advanced aspect of Québec’s literature by studying a variety of genres (novels, short stories, essays, autobiographies). The course will include questions of identity, the Self, migration, etc. It may also explore literatures from culturally-diverse communities based in Québec.
Prerequisite: FREB50H3 and [0.5 credit in Québec literature and 0.5 credit in French literature, one of which must be at the C-level]
Exclusion: (FRED12H3)
Breadth Requirement: Arts, Literature & Language

FRED90Y3 Supervised Reading
These courses offer the student an opportunity to carry out independent study of an advanced and intensive kind, under the direction of a faculty member. Student and instructor work out in consultation the course’s objectives, content, bibliography, and methods of approach. The material studied should bear a clear relation to the student’s previous work, and should differ significantly in content and/or concentration from topics offered in regular courses. In applying to a faculty supervisor, students should be prepared to present a brief written statement of the topic they wish to explore. Final approval of the project rests with the French Discipline. Students are advised that they must obtain consent from the supervising instructor before registering for these courses. Interested students should contact the Discipline Representative or Program Supervisor for guidance.
Prerequisite: One B-level course in the group FREB01H3-FREB84H3, except FREB17H3 and FREB18H3.
Geography Faculty List

- G. Brauen, B.Sc (New Brunswick), M.C.S, Ph.D (Carleton), Assistant Professor, Teaching Stream
- M. Buckley, B.Sc., M.E.S. (York), Ph.D (Oxford), Assistant Professor
- M. F. Bunce, B.A. (Sheffield), Ph.D. (Sheffield), Associate Professor Emeritus
- S.C. Bunce, B.A. (Guelph), M.E.S Pl. (York), Ph.D. (York), Assistant Professor
- M. Ekers, B.Sc., (Lakehead), M.E.S. (York), Ph.D. (Oxford), Assistant Professor
- S. Farber, B.A. (McGill), M.S.A (Ryerson), Ph.D (McMaster), Assistant Professor
- J. Han, B.A., Ph.D. (Univ. California, Berkeley), Assistant Professor
- M. Hunter, B.A. (Sussex), M.A. (Univ. of Natal), Ph.D. (Univ. California Berkeley), Associate Professor
- T. Kepe, B.Agric. (Fort Hare), M.Sc. (Guelph), Ph.D. (Western Cape), Associate Professor
- K. MacDonald, B.A., M.A., Ph.D. (Waterloo), Associate Professor
- M. Mahtani, B.A. (Dalhousie), Ph.D. (London), Associate Professor
- J. R. Miron, B.A. (Queen's), M.A. (Penn.), M.Sc. (pl.), Ph.D. (Toronto), Professor
- S. Mollett, B.A., M.E.S. (York), Ph.D. (Toronto), Assistant Professor
- R. Narayana Reddy, MESc. (Yale University), Ph.D. (Minnesota), Assistant Professor
- E.C. Relph, B.A., M.Phil. (London), Ph.D. (Toronto), Professor Emeritus

Chair: Andre Sorensen
For curriculum inquiries please contact the GGR Program Advisor. Email: ggr-advisor@utsc.utoronto.ca

Geography is a broad-ranging subject. As a social science it is concerned with the spatial patterns of human activity and the character of regions and places. It is a subject which is well placed to explore the complex relationships between society and the natural environment as well as the social and economic problems of human land use and settlement. It therefore complements other Programs such as: City Studies, Environmental Science, Political Science, Sociology, Anthropology, Economics for Management Studies and International Development Studies. Geography courses are also listed as options in several University of Toronto Scarborough Programs including City Studies, Economics, Enivromental Studies, Health Studies, International Development Studies, Public Policy and Women's and Gender Studies.

Human Geography Areas of Focus

*Indicates a course that crosses two areas of focus.

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Geography Programs

SPECIALIST PROGRAM IN HUMAN GEOGRAPHY (ARTS)

The Specialist in Human Geography expands upon, and enhances, the course requirements and learning outcomes of the Major in Human Geography. It is a more in-depth program that allows a deeper exploration of Human Geography, thus creating an opportunity for advanced students to engage in a richer, more intensive program, and allowing them to gain a sufficient depth of knowledge, and the enhanced methods and skills training they will need, for graduate studies or to compete in employment markets. The Specialist program will pair nicely with the Minor in GIS, or the Minor in City Studies.

Program Requirements
Students must complete 12.0 credits as follows:

1. Foundations of Human Geography (1.0 credit from among the following)
   - GGRA02H3 The Geography of Global Processes
   - GGRA03H3 Cities and Environments
   - GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. Theory and Concepts in Human Geography (2.5 credits)
   - GGRB02H3 The Logic of Geographical Thought
   - GGRB03H3 Writing Geography: From Good to Great
   and
   1.5 credits from among the following:
   - GGRB05H3 Urban Geography
   - GGRB13H3 Social Geography
   - GGRB21H3 Environments and Environmentalisms
   - GGRB28H3 Geographies of Disease
   - GGRB55H3 Cultural Geography

3. Methods (2.0 credits)
   - GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   - STAB23H3 Introduction to Statistics for the Social Sciences (or equivalent)
   and 1.0 credits from:
     - GGRB30H3 Fundamentals of GIS I
     - GGRB32H3 Fundamentals of GIS II
     - GGRC31H3 Qualitative Geographical Methods: Place and Ethnography

4. Applications (5.5 credits)
   5.5 additional credits at the C- and/or D-level in GGR courses

5. Advanced Applications (1.0 credit)
   1.0 credit at the D-level in GGR courses

MAJOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)

A Major Program for students interested in Human Geography as an academic discipline. This Program equips students with the knowledge and skills needed to understand contemporary social science thought in the context of the communities, societies, and economies formed by human populations, and the ways in which location, landscape, and spatial context shape (and are shaped by) social structures, functioning, and behaviour.

Guidelines for 1st year course selection
Students intending to complete the Major Program in Human Geography are required to take two of GGRA02H3, GGRA03H3 or GGRA35H3. Enrollment in GGRA35H3 is limited and restricted to first year students. Students are also encouraged to take GGRA30H3 in their first year as a methods course.

Guidelines for Major Program completion:
Courses in the Major Program in Human Geography are divided into three main subdisciplinary areas of focus: Urban Geography, Social/Cultural Geography and Environmental Geography. Major students are encouraged to focus on two areas of focus after second year.

Program Requirements
The Major Program in Human Geography requires a total of 7.0 full credits as follows:
1. Foundations of Human Geography (1.0 credit from the following):
   - GGRA02H3 The Geography of Global Processes
GGRA03H3 Cities and Environments
GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience

2. Theory and Concepts in Human Geography (2.0 credit):
   GGRB02H3 The Logic of Geographical Thought
   and
   1.5 credits from:
   GGRB05H3 Urban Geography
   GGRB13H3 Social Geography
   GGRB21H3 Environments and Environmentalisms
   GGRB28H3 Geographies of Disease
   GGRB55H3 Cultural Geography

3. Methods (1.0 credit from the following):
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGRB03H3 Writing Geography: From Good to Great
   GGRB30H3 Fundamentals of GIS I
   GGRB32H3 Fundamentals of GIS II
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   STAB23H3 Introduction to Statistics for the Social Sciences

4. Applications (2.5 credits):
   2.5 credits at the C- and/or D-level in GGR courses

5. Advanced Applications (0.5 credit):
   0.5 credit at the D-level in GGR courses

MAJOR PROGRAM IN PHYSICAL AND HUMAN GEOGRAPHY (ARTS)

This is an interdepartmental program leading to a B.A. degree in which students combine courses in human geography (GGR prefix) with courses in physical geography (EES prefix).

Guidelines for 1st year course selection
EES courses presume a background in physical sciences and mathematics. It is recommended that first year students take EESA01H3, EESA06H3, GGRA02H3 and GGRA03H3 and at least 1.0 full credit from among [BIOA01H3 & BIOA02H3], [CHMA10H3 & CHMA11H3], [PHYA10H3 or PHYA11H3]. [MATA30H3 & MATA35H3/A36H3/A37H3].

Program Requirements
The Major Program in Physical and Human Geography requires the completion of a total of 8.0 full credits of which 4.0 credits are to be EES courses, and 4.0 credits are to be GGR or CIT courses. Among these 8.0 credits, the student must include:
1. 2.0 credits: EESA01H3, EESA06H3, GGRA02H3 & GGRA03H3
2. At least 1.5 credits from among EESA02H3, EESA03H3, EESA04H3, EESA05H3, & EESA15H3
3. At least 1.5 credits from among CITB01H3, GGRB02H3, GGRB05H3, GGRB13H3, GGRB21H3, GGRB28H3 and GGRB55H3
4. At least 1.0 credit at the C- or D-level from among EES courses
5. At least 1.0 credit at the C- or D-level from among GGR or CIT courses
6. At least one additional 0.5 credit with a GGR or CIT prefix
7. At least one additional 0.5 credit with an EES prefix

MINOR PROGRAM IN GEOGRAPHIC INFORMATION SCIENCE (GIS) (ARTS)

GIS is based on the integration of digital spatial data, mapping software, and spatial analysis tools. GIS has been a core method in Geographical research for almost two decades, but is also rapidly growing in importance outside Geography, in part because of the huge amounts of new spatial data being generated by ubiquitous sensors such as smart phones with GPS locators.

A growing number of research areas and careers require knowledge of GIS and cartographic presentation skills. This minor program provides training in the theory and practical application of Geographic Information Science and systems for spatial analysis, spatial data management, and cartographic representation, and is an excellent option for students pursuing Human Geography, City Studies, Critical Development Studies, Historical and Cultural Studies, Sociology, Political Science, Anthropology, Environmental Studies and Environmental Science.
Program Requirements

This program requires the completion of 4.0 credits as follows:

1. **1.0 credit from ONE of the following discipline groups:**
   
a. **Human Geography**
   - GGRA02H3 The Geography of Global Processes
   - GGRA03H3 Cities and Environments
   - CITB02H3 Foundations of City Studies

   b. **Anthropology**
   - ANTA01H3 Introduction to Anthropology: Becoming Human
   - ANTA02H3 Introduction to Anthropology: Society, Culture and Language

   c. **Environmental Science**
   - EESA01H3 Introduction to Environmental Science
   - EESA06H3 Introduction to Planet Earth

   d. **History**
   - HIS04H3 Themes in World History I
   - HIS05H3 Themes in World History II

   e. **International Development Studies**
   - IDSA01H3 Introduction to International Development Studies
   - IDSA02H3 Experiencing Development in Africa

   f. **Political Science**
   - POLA01H3 Critical Issues in Politics I
   - POLA02H3 Critical Issues in Politics II

   g. **Sociology**
   - SOCA01H3 Introduction to Sociology I
   - SOCA02H3 Introduction to Sociology II

2. **2.0 credits:**
   - GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   - GGRB30H3 Fundamentals of GIS I
   - GGRB32H3 Fundamentals of GIS II
   - GGRC30H3 Advanced GIS

3. **0.5 credit:**
   - GGRD30H3 GIS Research Project

4. **0.5 credit from the following**:
   - EESC03H3 Geographic Information Systems and Remote Sensing
   - GGRC12H3 Transportation Geography
   - GGRC27H3 Location and Spatial Development
   - GGRC32H3 Essential Spatial Analysis
   - GGRC34H3 Crowd-sourced Urban Geographies
   - GGRD01H3 Supervised Research Project
   - GGRD08H3 Research Seminar in Environmental Geography
   - GGRD25H3 Research Seminar in Urban Spaces
   - GGRD31H3 Independent Research Project
   - CITD01H3 City Issues and Strategies

*Permission to count these courses towards the Minor in Geographic Information Science (GIS) must be received from the Departmental Chair or the Program Advisor, and will be granted in cases where the student’s major research project employs GIS research methods.*
MINOR PROGRAM IN HUMAN GEOGRAPHY (ARTS)

The minor program is designed to give students a general introduction to Human Geography. Students are encouraged to select their B-, C-, and D-level courses from one of the three areas of focus: Environmental, Urban or Social/Cultural Geography.

Program Requirements

This program requires the completion of 4.0 full credits in Geography including:

1. GGRA02H3 and GGRA03H3
2. An additional 3.0 credits in GGR courses, of which at least 1.0 credit must be at the C- or D-level

Geography Courses

GGRA02H3 The Geography of Global Processes
Globalization from the perspective of human geography. The course examines how the economic, social, political, and environmental changes that flow from the increasingly global scale of human activities affect spatial patterns and relationships, the character of regions and places, and the quality of life of those who live in them.
Exclusion: GGR107H, (GGR107Y), GGR117Y
Breadth Requirement: Social & Behavioural Sciences

GGRA03H3 Cities and Environments
An introduction to the characteristics of modern cities and environmental issues, and their interconnections. Linkages between local and global processes are emphasized. Major topics include urban forms and systems, population change, the complexity of environmental issues such as climate change and water scarcity, planning for sustainable cities.
Exclusion: GGR107H, (GGR107Y), GGR117Y
Breadth Requirement: Social & Behavioural Sciences

GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
Confirmatory causal modeling and GIS; map as model; GIS data input; cartographic and GIS data structures; data errors and editing; elementary spatial analysis; measurement; map comparison; classification; statistical surfaces; spatial arrangement; privacy issues.
Breadth Requirement: Quantitative Reasoning

GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience
Scarborough is a place of rapidly changing social geographies, and now contains one of the world’s most extraordinary mixes of people. What do these changes mean, how can we understand and interpret them? This course introduces Human Geography as the study of people, place, and community through field trips, interviews, and guest lectures.
Enrolment Limits: 30; Restricted to first year undergraduate students.
Breadth Requirement: Social & Cultural Geography

GGRB02H3 The Logic of Geographical Thought
Many of today's key debates - for instance, on globalization, the environment, and cities - draw heavily from geographical thinking and what some have called the "spatial turn" in the social sciences. This course introduces the most important methodological and theoretical aspects of contemporary geographical and spatial thought, and serves as a foundation for other upper level courses in Geography.
Prerequisite: Any 4 credits
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

GGRB03H3 Writing Geography: From Good to Great
This course aims to develop critical reading and writing skills of human geography students. Through a variety of analytical, reflexive, and descriptive writing assignments, students will practice how to draft, revise, and edit their writing on spatial concepts. Students will learn how to conduct research for literature reviews, organize materials, and produce scholarly papers. They will also learn to cultivate their writing voice by engaging in a range of writing styles and forms such as blog posts, critical commentaries, travelogues, field notes, and research briefs. The course emphasizes writing clearly, succinctly, and logically.
Prerequisite: Any 4.0 credits
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major program in Human Geography. Additional students will be admitted as space permits.

GGRB05H3 Urban Geography
This course will develop understanding of the geographic nature of urban systems and the internal spatial patterns and activities in cities. Emphasis is placed on the North American experience with some examples from other regions of the world. The course will explore the major issues and problems facing contemporary urban society and the ways they are analysed.
Area of Focus: Urban Geography
Prerequisite: Any 4 credits
Exclusion: GGR124H, (GGR124Y)
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

GGRB13H3 Social Geography
The reciprocal relations between spatial structures and social identities. The course examines the role of social divisions such as class, race/ethnicity, gender and sexuality in shaping the social geographies of cities and regions. Particular emphasis is placed on space as an arena for the construction of social relations and divisions.
Area of Focus: Social/Cultural Geography
Prerequisite: Any 4 credits
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

GGRB21H3 Environments and Environmentalisms
This foundational course explores different conceptions of 'the environment' as they have changed through space and time. It also analyzes the emergence of different variants of environmentalism and their contemporary role in shaping environmental policy and practice.
Area of Focus: Environmental Geography
Exclusion: GGR222H, GGR223H
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences
GGRB28H3 Geographies of Disease
Examines the geographical distribution of disease and the spatial processes in which diseases are embedded. Themes include spatial theories of health and disease and uneven development and health. Special attention will be given to the geographical dimension of the HIV pandemic.
Area of Focus: Social/Cultural Geography
Prerequisite: Any 4 credits
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

GGRB30H3 Fundamentals of GIS I
This course provides a practical introduction to digital mapping and spatial analysis using a geographic information system (GIS). The course is designed to provide hands-on experience using GIS to analyse spatial data, and create maps that effectively communicate data meanings. Students are instructed in GIS methods and approaches that are relevant not only to Geography but also to many other disciplines. In the lectures, we discuss mapping and analysis concepts and how you can apply them using GIS software. In the practice exercises and assignments, you then learn how to do your own data analysis and mapping, gaining hands-on experience with ArcGIS software, the most widely used GIS software.
Prerequisite: GGRB30H3
Enrolment Limits: 150
Breadth Requirement: Quantitative Reasoning

GGRB32H3 Fundamentals of GIS II
This course builds on GGRB30 Fundamentals of GIS, continuing the examination of theoretical and analytical components of GIS and spatial analysis, and their application through lab assignments. The course covers digitizing, topology, vector data models, remote sensing and raster data models and analysis, geoprocessing, map design and cartography, data acquisition, metadata, and data management, and web mapping.
Prerequisite: GGRB30H3
Enrolment Limits: 150
Breadth Requirement: Quantitative Reasoning

GGRB55H3 Cultural Geography
The course introduces core concepts in cultural geography such as race and ethnicity, identity and difference, public and private, landscape and environment, faith and community, language and tradition, and mobilities and social change. Emphasis will be on cross-disciplinary, critical engagement with current events, pop culture, and visual texts including comics, photos, and maps.
Area of Focus: Social/Cultural Geography
Prerequisite: Any 4.0 credits
Enrolment Limits: 150
Breadth Requirement: Social & Behavioural Sciences

GGRC01H3 Supervised Readings in Human Geography
An independent supervised reading course open only to students in the Major Program in Human Geography. An independent literature review research project will be carried out under the supervision of an individual faculty member.
Prerequisite: 10 full credits including completion of the following requirements for the Major Program in Human Geography: 1) Introduction, 2) Theory and Concepts, 3) Methods; & a cumulative GPA of at least 2.5.

GGRC02H3 Population Geography
An examination of the geographical dimension to human population through the social dynamics of fertility, mortality and migration. Themes include disease epidemics, international migration, reproductive technologies, and changing family structure.
Area of focus: Social/Cultural Geography
Prerequisite: Any 8.0 credits
Exclusion: GGR323H, GGR208H
Recommended Preparation: GGRB02H3 or CITB02H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC09H3 Current Topics in Social Geography
Examination and discussion of current trends and issues in social geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.
Area of focus: Social/Cultural Geography
Prerequisite: Any 8.0 credits
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC10H3 Urbanization and Development
Examines global urbanization processes and the associated transformation of governance, social, economic, and environmental structures particularly in the global south. Themes include theories of development, migration, transnational flows, socio-spatial polarization, postcolonial geographies of urbanization.
Area of focus: Urban Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB05H3 or CITB02H3 or IDSA01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC11H3 Current Topics in Urban Geography
Examination and discussion of current trends and issues in urban geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.
Area of focus: Urban Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB05H3 or CITB02H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC12H3 Transportation Geography
Transportation systems play a fundamental role in shaping social, economic and environmental outcomes in a region. This course explores geographical perspectives on the development and functioning of transportation systems, interactions between transportation and land use, and costs and benefits associated with transportation systems including: mobility, accessibility, congestion, pollution, and livability.
Area of focus: Urban Geography
Prerequisite: Any 8.0 credits including GGRA30H3 and [GGRB05H3 or CITB02H3]
Exclusion: GGR370H, GGR424H
Recommended Preparation: GGRB30H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
GGRC13H3 Urban Political Geography
Geographical approach to the politics of contemporary cities with emphasis on theories and structures of urban political processes and practices. Includes nature of local government, political powers of the property industry, big business and community organizations and how these shape the geography of cities.
Area of focus: Urban Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB05H3 or CITB02H3 or PPGC66H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC21H3 Current Topics in Environmental Geography
Examination and discussion of current trends and issues in environmental geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.
Area of focus: Environmental Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB21H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC22H3 Political Ecology Theory and Applications
Explores how politics, the economy, history and culture shape, and are shaped by interactions of people with the physical environment. Analysis moves beyond the roles government and interest groups in shaping environmental policies, to expanding our understanding of 'politics' in (i) environmental discourses and knowledge; (ii) economic systems; (iii) regimes of natural resource ownership and use; and (iv) everyday struggles within and between communities and interest groups as they shape human-nature relationships.
Area of focus: Environmental Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB21H3 or IDS02H3 or ESTB01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC24H3 Socio-Natures and the Cultural Politics of 'The Environment'
Explores the processes through which segments of societies come to understand their natural surroundings, the social relations that produce those understandings, popular representations of nature, and how 'the environment' serves as a consistent basis of social struggle and contestation.
Areas of focus: Environmental Geography; Social/Cultural Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB21H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC25H3 Land Reform and Development
Land reform, which entails the redistribution of private and public lands, is broadly associated with struggles for social justice. It embraces issues concerning how land is transferred (through forceful dispossession, law, or markets), and how it is currently held. Land inequalities exist all over the world, but they are more pronounced in the developing world, especially in countries that were affected by colonialism. Land issues, including land reform, affect most development issues.
Area of focus: Environmental Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB21H3 or AFSB01H3 or IDS02H3 or ESTB01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC26H3 Geographies of Environmental Governance
This course addresses the translation of environmentalism into formalized processes of environmental governance; and examines the development of environmental institutions at different scales, the integration of different forms of environmental governance, and the ways in which processes of governance relate to forms of environmental practice and management.
Area of focus: Environmental Geography
Prerequisite: Any 8.0 credits
Recommended Preparation: GGRB21H3 or ESTB01H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC27H3 Location and Spatial Development
Location of a firm; market formation and areas; agricultural location; urban spatial equilibrium; trade and spatial equilibrium; locational competition; equilibrium for an industry; trade and location.
Area of focus: Urban Geography
Prerequisite: MGEA01H3/(ECMA01H3) & [(GGRB02H3 & GGRB05H3) or (CITB01H3 & CITB02H3) or (MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)) & (MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3))]
Exclusion: (GGRC27H3), GGR220Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

GGRC30H3 Advanced GIS
This course covers advanced theoretical and practical issues of using GIS systems for research and spatial analysis. Students will learn how to develop and manage GIS research projects, create and analyze three-dimensional surfaces, build geospatial models, visualize geospatial data, and perform advanced spatial analysis. Lectures introduce concepts and labs implement them.
Prerequisite: GGRB32H3
Exclusion: GGR37H3
Enrolment Limits: 60
Breadth Requirement: Quantitative Reasoning

GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
Explores the practice of ethnography (i.e. participant observation) within and outside the discipline of geography, and situates this within current debates on methods and theory. Topics include: the history of ethnography, ethnography within geography, current debates within ethnography, the "field," and ethnography and "development."
Prerequisite: Any 8.0 credits
Enrolment Limits: 60
Breadth Requirement: History, Philosophy & Cultural Studies

GGRC32H3 Essential Spatial Analysis
This course builds on introductory statistics and GIS courses by introducing students to the core concepts and methods of spatial analysis. With an emphasis on spatial thinking in an urban context, topics such as distance decay, distance metrics, spatial interaction, spatial distributions, and spatial autocorrelation will be used to quantify spatial patterns and identify spatial processes. These tools are the essential building blocks for the quantitative analysis of urban spatial data.
Area of focus: Urban Geography
Prerequisite: Any 8.0 credits including [STAB23H3 and GGRB30H3]
Exclusion: GGR276H  
Enrolment Limits: 60  
Breadth Requirement: Quantitative Reasoning

GGRC33H3 The Toronto Region  
This course examines issues of urban form and structure, urban growth and planning in the Toronto region. Current trends in population, housing, economy, environment, governance, transport, urban design and planning practices at the local level and the regional scale will be examined critically.  
Area of focus: Urban Geography  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB05H3 or CITB02H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC34H3 Crowd-sourced Urban Geographies  
Significant recent transformations of geographic knowledge are being generated by the ubiquitous use of smartphones and other distributed sensors, while web-based platforms such as Open Street Map and Public Participation GIS (PPGIS) have made crowd-sourcing of geographical data relatively easy. This course will introduce students to these new geographical spaces, approaches to creating them, and the implications for local democracy and issues of privacy they pose.  
Area of focus: Urban Geography  
Prerequisite: GGRB05H3 or GGRB30H3  
Recommended Preparation: GGRB32H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC40H3 Megacities and Global Urbanization  
The last 50 years have seen dramatic growth in the global share of population living in megacities over 10 million population, with most growth in the global south. Such giant cities present distinctive infrastructure, health, water supply, and governance challenges, which are increasingly central to global urban policy and health.  
Area of focus: Urban Geography  
Prerequisite: Any 8.0 credits  
Exclusion: (CITC40H3)  
Recommended Preparation: GGRB05H3 or CITB02H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC41H3 Current Topics in Human Geography  
Examination and discussion of current trends and issues in human geography, with particular emphasis on recent developments in concepts and methods. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year.  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB20H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC44H3 Environmental Conservation and Sustainable Development  
Deals with two main topics: the origins of environmental problems in the global spread of industrial capitalism, and environmental conservation and policies. Themes include: changes in human-environment relations, trends in environmental problems, the rise of environmental awareness and activism, environmental policy, problems of sustainable development.  
Area of focus: Environmental Geography  
Prerequisite: Any 8.0 credits

GGRC45H3 Local Geographies of Globalization  
Examines the localized consequences of global processes. Toronto will be used as a site for understanding how individuals interact with and experience the effects of globalizing forces differently based on their unique conditions of life and how they respond to the challenges and opportunities of a globalized world.  
Areas of focus: Urban or Social/Cultural Geography  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB05H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC48H3 Geographies of Urban Poverty  
How have social and economic conditions deteriorated for many urban citizens? Is the geographic gap widening between the rich and the poor? This course will explore the following themes: racialization of poverty, employment and poverty, poverty and gender socio-spatial polarization, and housing and homelessness.  
Area of focus: Urban Geography  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB05H3 or CITB02H3 or IDSA01H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC49H3 Land, Development, and Struggle in Latin America  
The politics of land and territorial rights are a central theme in international development practice in Latin America. This course attends to how development policy shapes access to, control of, and struggles over land and natural resources. The land and territorial struggles of women and indigenous, Afro-descendant and campesino communities inform course content.  
Areas of focus: Environmental or Social/Cultural Geography  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB13H3 or GGRB21H3 or IDSA01H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC50H3 Geographies of Education  
Explores the social geography of education, especially in cities. Topics include geographical educational inequalities; education, class and race; education, the family, and intergenerational class immobility; the movement of children to attend schools; education and the ‘right to the city.’  
Areas of focus: Urban or Social/Cultural Geography  
Prerequisite: Any 8.0 credits  
Recommended Preparation: GGRB05H3 or GGRB13H3  
Enrolment Limits: 60  
Breadth Requirement: Social & Behavioural Sciences

GGRC54H3 Human Geography Field Trip  
Provides an opportunity to engage in a field trip and field research work on a common research topic. The focus will be on: preparation of case study questions; methods of data collection including interviews, archives, and observation; snowballing contacts; and critical case-study analysis in a final report.  
Prerequisite: GGRB02H3 and 1.0 additional credit at the B-level in GGR  
Enrolment Limits: 30; Restricted to students in the Human Geography Major.
**Geography**

**GGRD11H3 Advanced Geographical Theory and Methods**
Designed for final-year Human Geography Majors, this reading-intensive seminar course develops analytical and methodological skills in socio-spatial analysis. We explore major theoretical/methodological traditions in geography including positivism, humanism, Marxism, and feminism, and major analytical categories such as place, scale, and networks. Particularly recommended for students intending to apply to graduate school.
Prerequisite: 13.0 credits including GGRB02H3
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**GGRD12H3 Seminar in Selected Topics in Human Geography**
Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of current theoretical and methodological issues in human geography. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year. Seminar format with active student participation.
Prerequisite: 13.0 credits including GGRB02H3
Enrolment Limits: 20

**GGRD13H3 Social Justice and the City**
Examines links between politics of difference, social justice and cities. Covers theories of social justice and difference with a particular emphasis placed on understanding how contemporary capitalism exacerbates urban inequalities and how urban struggles such as Occupy Wall Street seek to address discontents of urban dispossession. Examples of urban social struggles will be drawn from global North and South.
Areas of focus: Urban or Social/Cultural Geography
Prerequisite: 13.0 credits including [GGRB05H3 or GGRB13H3 or CITB02H3 or IDS06H3]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**GGRD14H3 Research Seminar in Selected Topics in Human Geography**
Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of current theoretical and methodological issues in human geography. This course is an unique opportunity to explore a particular topic in-depth, the specific content will vary from year to year. Seminar format with active student participation.
Prerequisite: 13.0 credits including GGRB02H3
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**GGRD19H3 Spaces of Multiracality: Critical Mixed Race Theory**
From Tiger Woods to Mariah Carey, the popular mixed race phenomenon has captured the popular imagination and revealed the contradictory logic of categorization underpinning racial divisions. We will explore the complexities of racial identity formation to illuminate the experiences of those who fall outside the prevailing definitions of racial identities.
Area of focus: Social/Cultural Geography
Prerequisite: 13.0 credits including [GGRB13H3 or SOCB60H3]
Exclusion: (GGRC19H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**GGRD25H3 Research Seminar in Urban Spaces**
Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of current theoretical and methodological issues in urban geography. Specific content will vary from year to year. Seminar format with active student participation.
Area of focus: Urban Geography
Prerequisite: 13.0 credits including [GGRB05H3 or CITB02H3]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**NOTE:** Priority will be given to Geography Majors with the highest CGPA.
GGRD30H3 GIS Research Project
Students will design, manage and complete a research project using GIS. Students will work in teams of 4-6 to pose a research question, acquire a dataset, and organize and analyze the data to answer their question. The course will teach research design, project management, data analysis, team work, and presentation of final results.
Prerequisite: GGRC30H3
Exclusion: GGR462H
Enrolment Limits: 20
Breadth Requirement: Quantitative Reasoning

GGRD31H3 Independent Research Project
Independent research extension to one of the courses already completed in Human Geography. Enrolment requires written permission from a faculty supervisor and Associate Chair, Human Geography. Only open to students who have completed 13.0 credits and who are enrolled in the Human Geography Major, Human and Physical Geography Major programs, or Minor Program in GIS sponsored by the Department of Human Geography.
Prerequisite: Any 13.0 credits
Breadth Requirement: Social & Behavioural Sciences
Global Asia Studies

Faculty List

- R. Bai, M.A. (Beijing Foreign Studies), Ph.D. (Illinois), Associate Professor
- L. Chen, M.A. (SUNY Buffalo), J.D. (Illinois), M.A., M.Phil., Ph.D. (Columbia), Associate Professor
- A. Grewal, M.A. (Trent), Ph.D. (Chicago), Assistant Professor
- Y. Gu, M.A. (Fudan), Ph.D. (Brown), Assistant Professor
- B. Raman, M.A., Ph.D. (Michigan), Associate Professor
- J. Sharma, M.A. (Delhi), M.Phil. (Delhi), Ph.D. (Cambridge), Associate Professor

Undergraduate Advisor: 416-287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca

Global Asia Studies (GAS) is an inter-disciplinary undergraduate program that places Asia within a dynamic global and diasporic context. It enhances our understanding of historical and contemporary global culture and politics by enabling students to engage with an extensive and intensive study of Asia and Asian Diasporas in the past and present. Global Asia Studies uses cutting-edge Humanities methods and theories from a range of different disciplines to explore the societies of East and South Asia and their global ramifications. It aims to locate the academic study of Asia within the fabric of the community through exciting co- and extra-curricular programming and a commitment to socially responsible and educationally rigorous experiential learning.

The curriculum combines a variety of approaches. The first year A-level courses GAS01H3/HISA06H3 and GAS02H3 provide a general introduction to Asia in a global context through historical and cultural perspectives respectively. GAS students then move onto courses at the B-level which provide a comprehensive foundation of knowledge in particular areas and fields relevant to the study of Asia. For example, see courses such as GASB57H3/HISB57H3.

In C-level courses, students investigate specific areas and problems pertaining to East and South Asia in greater depth. These courses are conducted in lecture and tutorial discussion format. For example, see courses such as GASC20H3. All D-level courses are conducted as small-group seminars where students conduct research and analysis of particular questions or topics, actively participate in class discussions and present their findings in class and in their research essays. For example, see courses such as GASD01H3. The Global Asia Studies major and specialist programs are designed for those students who wish to acquire more in-depth knowledge of Asia that spans a number of disciplines, and may help better prepare them for a variety of careers.

Language study for the Global Asia Studies program is particularly important for those students who wish to move onto advanced studies of East or South Asia at the university level, and to acquire a specialized knowledge base for a range of professional and academic opportunities. Languages offered at the university that count towards the Global Asia Studies degree include Hindi, Mandarin Chinese, and Japanese. Currently students should get the Program Director's written approval before taking any course of such languages if offered outside UTSC. The language study requirement is waived in specific cases. Please see the specific requirements for such waivers below.

Guidelines for 1st year course selection
Students who intend to complete a Global Asia Studies Program should include GAS01H3/HISA06H3 or GAS02H3 in their 1st year course selection.

For updates and detailed information regarding Global Asia Studies please visit the Historical and Cultural Studies website: www.utsc.utoronto.ca/~hcs/

Global Asia Studies Programs

SPECIALIST PROGRAM IN GLOBAL ASIA STUDIES (ARTS)

Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete 12.0 credits, of which at least 4.0 credits must be at the C- or D-level, including at least 1.0 credit at the D-level:

1. 0.5 credit:
   GAS01H3/HISA06H3 Introducing Global Asia and its Histories
   or
   GAS02H3 Introduction to Global Asia Studies

2. 8.0 credits at the B- or C-level in GAS courses, of which 3.0 credits should be at the C-level (students should check course descriptions for prerequisites):

3. At least 1.0 credit at the D-level in GAS courses (students should check course description for prerequisites):

4. 2.5 credits from Asian language courses taught at the university, of which at least 1.5 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Specialist students who do not qualify for existing upper-level language courses at the
university can (with prior written permission from the Program Supervisor) make up any necessary credits with other GAS courses.

MAJOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)

Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete 7.0 credits as follows:

1. 0.5 credit:
   GASA01H3/HISA06H3 Introducing Global Asia and its Histories
   or
   GASA02H3 Introduction to Global Asia Studies

2. 4.5 credits in GAS courses, of which at least 1.5 credits must be at the C-level and 1.0 at the D-level (students should check course description for prerequisites):

3. 2.0 credits from: Asian language courses taught at the university, of which at least 1.0 credits should be from courses taken at the B, C, or D-levels. Preferably, these language courses will be taken in sequence. Major students who do not qualify for existing upper-level language courses at the university can (with prior written permission of the Program Supervisor) make up any necessary credits with other GAS courses.

MINOR PROGRAM IN GLOBAL ASIA STUDIES (ARTS)

Undergraduate Advisor: (416) 287-7184 Email: gas-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete 4.0 credits as follows:

1. 0.5 credit:
   GASA01H3/HISA06H3 Introducing Global Asia and its Histories
   or
   GASA02H3 Introduction to Global Asia Studies

2. For the remaining 3.5 credits, students have two options:
   - complete 3.5 credits in GAS courses, of which at least 1.5 credits must be at the C- or D-level; or
   - complete 2.5 credits in GAS courses, of which at least 1.0 credit must be at the C- or D-level, plus 1.0 credit from Asian language courses.

Global Asia Studies Courses

GASA01H3 Introducing Global Asia and its Histories
This course introduces Global Asia Studies through studying historical and political perspectives on Asia. Students will learn how to critically analyze major historical texts and events to better understand important cultural, political, and social phenomena involving Asia and the world. They will engage in intensive reading and writing for humanities.

Same as HISA06H3
Exclusion: HISA06H3
Breadth Requirement: History, Philosophy & Cultural Studies

GASA02H3 Introduction to Global Asia Studies
This course introduces Global Asia Studies through the study of cultural and social institutions in Asia. Students will critically study important elements of culture and society over different periods of history and in different parts of Asia. They will engage in intensive reading and writing for humanities.

Breadth Requirement: Arts, Literature & Language

GASB05H3 Media and Globalization
This course introduces students to the variety of ways cultural and social theorists have addressed notions of “globalization” and the media; It will also focus on media systems and practices over different parts of the Global South: in particular, Asian, Latin American, and Middle Eastern countries.

Same as MDSB05H3
Prerequisite: MDSA01H3 and any 4.0 credits
Exclusion: MDSB05H3
Breadth Requirement: History, Philosophy & Cultural Studies

GASB15H3 The Arts of South Asia
The course will provide students with an introduction to the arts of South Asia, from classical to modern, and from local to global. Fields of study may include music, dance, drama, literature, film, graphic arts, decorative arts, magic, yoga, athletics, and cuisine, fields viewed as important arts for this society.

Breadth Requirement: Arts, Literature & Language

GASB20H3 Gender and Social Institutions in Asia
This course examines the role of gender in shaping social institutions in Asia.

Breadth Requirement: History, Philosophy & Cultural Studies
**GASB30H3 Asian Religions and Culture**
This course examines the close relationship between religions and cultures, and the role they play in shaping the worldviews, aesthetics, ethical norms, and other social ideals in Asian countries and societies. Breadth Requirement: History, Philosophy & Cultural Studies

**GASB33H3 Global Buddhism in Historical and Contemporary Societies**
This course examines the global spread of different versions of Buddhism across historical and contemporary societies. Breadth Requirement: History, Philosophy & Cultural Studies

**GASB35H3 Mughals and the World, 1500-1858 AD**
Why does Southern Asia's pre-colonial history matter? Using materials that illustrate the connected worlds of Central Asia, South Asia and the Indian Ocean rim, we will query conventional histories of Asia in the time of European expansion.

Same as HISB53H3
0.5 pre-1800 credit
Africa & Asia Area
Exclusion: HISB53H3
Breadth Requirement: History, Philosophy & Cultural Studies

**GASB57H3 Sub-Continental Histories: South Asia in the World**
A survey of South Asian history. The course explores diverse and exciting elements of this long history, such as politics, religion, trade, literature, and the arts, keeping in mind South Asia's global and diasporic connections.

Africa and Asia Area
Same as HISB57H3
Exclusion: HIS282Y, HIS282H, HISB57H3
Breadth Requirement: History, Philosophy & Cultural Studies

**GASB58H3 Modern Chinese History**
This course provides an overview of the historical changes and continuities of the major cultural, economic, political, and social institutions and practices in modern Chinese history.

Africa and Asia Area
Same as HISB58H3
Prerequisite: GAS01H3 or GAS02H3 or (HISA01H3) or (HISA02H3)
Exclusion: HIS280Y, HISB58H3
Breadth Requirement: History, Philosophy & Cultural Studies

**GASB73H3 Visualizing Asia**
A survey of the art of China, Japan, Korea, India, and Southeast Asia. We will examine a wide range of artistic production, including ritual objects, painting, calligraphy, architectural monuments, textile, and prints. Special attention will be given to social contexts, belief systems, and interregional exchanges.

Same as VPHB73H3
Prerequisite: VPHA46H3 or GAS01H3
Exclusion: VPHB73H3, FAH261H
Breadth Requirement: Arts, Literature & Language

**GASB77H3 Modern Asian Art**
An introduction to modern Asian art through domestic, regional, and international exhibitions. Students will study the multilayered new developments of art and art institutions in China, Japan, Korea, India, Thailand, and Vietnam, as well as explore key issues such as colonial modernity, translingual practices, and multiple modernism.

Same as VPHB77H3
Exclusion: VPHB77H3
Recommended Preparation: VPHA46H3 or GAS01H3

**GASC20H3 Gendering Global Asia**
This course offers students a critical and analytical perspective on issues of gender history, equity, discrimination, resistance, and struggle facing societies in East and South Asia and their diasporas.
Prerequisite: GAS01H3 or GAS02H3
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

**GASC33H3 Critical Perspectives in Global Buddhism**
This course critically examines different aspects of Buddhism in global context. It is offered as part of the prestigious TLKY Visiting Professor program.
Prerequisite: Any 4.0 credits
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

**GASC40H3 Chinese Media and Politics**
This course examines the complex and dynamic interplay of media and politics in contemporary China, and the role of the government in this process.
Same as MDSC40H3
Prerequisite: 4.0 credits, including ACMB01H3
Exclusion: MDSC40H3
Breadth Requirement: History, Philosophy & Cultural Studies

**GASC41H3 Media and Popular Culture in East Asia**
This course introduces students to media industries and commercial popular cultural forms in East Asia. Topics include reality TV, TV dramas, anime, and manga as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in East Asia.
Same as MDSC41H3
Prerequisite: 4.0 credits, including ACMB01H3
Exclusion: MDSC41H3
Breadth Requirement: History, Philosophy & Cultural Studies

**GASC42H3 Film and Popular Culture in South Asia**
This course offers students a critical perspective on film and popular cultures in South Asia. Topics include Bombay, Tamil, and other regional filmic industries, their history, production, and distribution strategies, their themes and musical genres, and a critical look at the larger social and political meanings of these filmic cultures.
Prerequisite: Any 4.0 credits
Enrolment Limits: 50
Breadth Requirement: Arts, Literature & Language

**GASC43H3 Colonialisms and Cultures in Modern East Asia**
This course explores the development of colonialism, modernity, and nationalism in modern Japan, Korea, China, and Taiwan. Key issues include sexuality, race, medicine, mass media, and consumption.
Prerequisite: Any one of [GASB20H3 or GASB58H3/HISB58H3 or GASC20H3]
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies
GASC45H3 Film and Popular Cultures in East Asia
This course offers students a critical perspective on film and popular cultures in East Asia. The course examines East Asian filmic industries, and the role they play in shaping worldview, aesthetics, ethical norms, folk beliefs, and other socio-cultural aspects in China, Hong Kong, Taiwan, Korea, and Japan.
Prerequisite: Any 4.0 credits
Breadth Requirement: Arts, Literature & Language

GASC50H3 Comparative Studies of East Asian Legal Cultures
An introduction to the distinctive East Asian legal tradition shared by China, Japan, and Korea through readings about selected thematic issues. Students will learn to appreciate critically the cultural, political, social, and economic causes and effects of East Asian legal cultures and practices.
Same as HISC56H3
Prerequisite: HISB58H3 or an equivalent B-level history course in East Asia.
Exclusion: HISC56H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

GASC53H3 The Silk Routes
The Silk Routes were a lacing of highways connecting Central, South and East Asia and Europe. Utilizing the Royal Ontario Museum’s collections, classes held at the Museum and U of T Scarborough will focus on the art produced along the Silk Routes in 7th to 9th century Afghanistan, India, China and the Taklamakhan regions.
Same as VPHC53H3
Prerequisite: One full credit in art history or in Asian or medieval European history.
Exclusion: VPHC53H3
Breadth Requirement: Arts, Literature & Language

GASC57H3 China and the World
A study of the history of China’s relationship with the rest of the world in the modern era. The readings focus on China’s role in the global economy, politics, religious movements, transnational diasporas, scientific/technological exchanges, and cultural encounters and conflicts in the ages of empire and globalization.
Africa and Asia Area
Same as HISC57H3
Prerequisite: GASA01H3 or GASB58H3
Exclusion: HISC57H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

GASC59H3 The Making of Tamil Worlds
This course explores the transnational history of Tamil worlds. In addition to exploring modern Tamil identities, the course will cover themes such as mass migration, ecology, social and economic life, and literary history.
Africa and Asia Area
Prerequisite: 4.0 credits and [an additional 0.5 credit in HCS or ANT courses]
Exclusion: HISC59H3, (GASB54H3), (HISB54H3)
Breadth Requirement: History, Philosophy & Cultural Studies

GASC74H3 A Tale of Three Cities: Introduction to Contemporary Art in China
An introduction to Chinese contemporary art focusing on three cities: Beijing, Shanghai, and Guangzhou. Increasing globalization and China’s persistent self-renovation has brought radical changes to cities, a subject of fascination for contemporary artists. The art works will be analyzed in relation to critical issues such as globalization and urban change.
Same as VPHC74H3
Prerequisite: 2 full credits at the B-level in Art History, Asian History, and/or Global Asia Studies, including at least one of VPHB39H3, VPHB73H3, GASB58H3/HISB58H3, GASB33H3, or (GASB35H3)
Exclusion: VPHC74H3
Breadth Requirement: Arts, Literature & Language

GASD01H3 Senior Seminar: Topics in Global Asian Migrations
This course offers an in-depth study of important cultural issues in historical and contemporary Asian, diasporic and borderland societies, including migration, mobility, and circulation. It is conducted in seminar format with emphasis on discussion, critical reading and writing, digital skills, and primary research.
Prerequisite: [(GASA01H3 and GASA02H3) and one C-level course from the options in the Specialist or Major program requirement #2] or [15.0 credits, including SOCB60H3]
Enrolment Limits: 15
NOTE: Topics vary from year to year. Check the website: www.utsc.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.

GASD02H3 Senior Seminar: Topics in Global Asian Societies
This course offers a capstone experience of issues which confront Asian and diasporic societies. Themes include gender, environment, human rights, equity, religion, politics, law, migration, labour, nationalism, post-colonialism, and new social movements. It is conducted in seminar format with emphasis on discussion, critical reading, and writing of research papers.
Prerequisite: [GASA01H3 and GASA02H3 and one C-level course from the options in the Specialist or Major program requirement #2]
Enrolment Limits: 15
NOTE: Topics vary from year to year. Check the website: www.utsc.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.

GASD03H3 Senior Seminar: Topics in Global Asia Studies
The course offers an in-depth, special study of important topics in the study of Global Asia. Special topics will vary from year to year depending on the expertise of the visiting professor. It is conducted in seminar format with emphasis on discussion, critical reading, and writing of research papers.
Prerequisite: Any 8.0 credits
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Topics vary from year to year. Check the website: www.utsc.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.

GASD06H3 Global History of Crime and Punishment since 1750
An exploration of the global problem of crime and punishment. The course investigates how the global processes of colonialism, industrialization, capitalism and liberalization affected modern criminal justice and thus the state-society relationship and modern citizenry in different cultures across time and space.
Same as HISD06H3
Transnational Area
Prerequisite: 8.0 credits completed including 1.0 credit in GAS or HIS
Global Asia Studies

courses at the B-level or above
Exclusion: HISD06H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies
This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research.
Same as SOCD20H3
Prerequisite: [SOCB05H3 and one C-level course in SOC] or [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]
Exclusion: SOCD20H3
Recommended Preparation: GASB20H3 and GASC20H3
Enrolment Limits: 20

GASD40H3 Senior Seminar: Issues in Chinese Media Studies
The Chinese government has played a central role in the development of print, electronic and digital media. Recent changes in the political economy of Chinese media have had strong political and cultural implications. This senior seminar course examines the complex and dynamic interplay of media and politics in contemporary China.
Prerequisite: [GASA01H3 and GASA02H3] and one C-level course from the options in the Specialist or Major program requirement #2
Enrolment Limits: 15
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/global-asia-studies.html for current offerings.

GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
'Coolie' labourers formed an imperial diaspora linking South Asia and China to the Caribbean, Africa, the Indian Ocean, South-east Asia, and North America. The long-lasting results of this history are evident in the cultural and ethnic diversity of today’s Caribbean nations and Commonwealth countries such as Great Britain and Canada.
Africa and Asia Area
Same as HISD56H3
Prerequisite: [8.0 credits, at least 2.0 of which should be at the B- or C-level in Modern History] or [15.0 credits, including SOCB60H3]
Exclusion: HISD56H3
Breadth Requirement: History, Philosophy & Cultural Studies

GASD58H3 Culture, Politics, and Society in Late Imperial China
A study of major cultural trends, political practices, social customs, and economic developments in late imperial China (1400-1911) as well as their relevance to modern and contemporary China. Students will read the most recent literature and write a substantive research paper.
0.5 pre-1800 credit
Africa and Asia area
Same as HISD58H3
Prerequisite: 8.0 credits including at least GASA01H3 or HISB58H3
Exclusion: HISD58H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

GASD59H3 Law and Society in Chinese History
A seminar course on Chinese legal tradition and its role in shaping social, political, economic, and cultural developments, especially in late imperial and modern China. Topics include the foundations of legal culture, regulations on sexuality, women's property rights, crime fictions, private/state violence, laws of ethnicities, prison reforms and modernization.
0.5 pre-1800 credit
Africa and Asia Area
Same as HISD59H3
Prerequisite: At least 8.0 fce completed, or [HISB58H3 or GASB58H3]
Exclusion: HISD59H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

GASD71H3 Cuisine, Culture, and Societies Across Global Asia
Examines the central place of cuisine to families, societies, and cultures across Global Asian societies and their diasporas, using tastes, culinary work techniques, community-based research, oral histories, digital humanities and multi-media experiential learning, as well as critical reading and writing.
Prerequisite: 8.0 credits, including 1.0 credit from any program offered by the Department of Historical and Cultural Studies
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
Health Studies

Faculty List

- L. Bisaillon, B.A. (Bishop's University), M.Pl. (McGill), Ph.D. (Ottawa), Assistant Professor
- A. Charise, B.A., B.Sc. (McMaster), M.A. (Western), Ph.D. (Toronto), Assistant Professor
- S.R. Sicchia, M.H.Sc. (Toronto), M.Sc. (Toronto), Ph.D. (Toronto), Assistant Professor, Teaching Stream
- M. Silver, B.A., B.S., & M.P.P. (Univ. California, Berkeley), Ph.D. (Univ. of Chicago), Assistant Professor
- L.J.S. Tsuji, B.Sc. (Toronto), DDS (Toronto), Ph.D. (York), Professor

Academic Program Supervisor: S. Sicchia Email suzanne.sicchia@utoronto.ca
Program Advisor: J. Roopnarinesingh Email health-studies-advisor@utsc.utoronto.ca

Health Studies is an interdisciplinary program that provides students with a critical and comprehensive understanding of health, the biological and social determinants of health, and the impacts of public policy on health and well-being. Two complementary themes are open to interested students, one that focuses on population health, and the other on health policy. In the Major/Major Co-op programs in Health Studies - Population Health (BSc), students focus on the biological and environmental determinants of health, epidemiology, aging and the life cycle, and the importance of social and behavioural determinants of health. In the Major/Major Co-op programs in Health Studies - Health Policy (BA), students examine the character and consequences of different health care systems, public health policies, and governmental and civil society responses to ongoing societal issues related to health.

In addition to pursuing a rich core curriculum, students are strongly encouraged to diversify their learning by drawing upon relevant courses in various programs including Anthropology, International Development Studies, Economics, Environmental Studies, Human Biology, Mental Health, Philosophy, Public Policy, Sociology and Statistics.

Prerequisites: Students are reminded that they are not permitted to register in courses for which they have not completed the prerequisites indicated in the Calendar.

Program Exclusion: the Major/Major Co-op programs in Health Studies - Population Health (BSc) and Major/Major Co-op programs in Health Studies - Health Policy (BA) cannot be combined.

Students who plan to apply to a graduate program related to health are strongly encouraged to take a second course in Statistics, STAB27H3.

Health Studies Programs

MAJOR PROGRAM IN HEALTH STUDIES - Population Health (SCIENCE)

This program requires the completion of 8.0 credits, as described below.

CORE (5.5 credits)

1. 1.5 credit at A-level:
   [BIOA11H3 Introduction to the Biology of Humans or [BIOA01H3 and BIOA02H3]*]
   HLTA02H3 Foundations of Health Studies I
   HLTA03H3 Foundations of Health Studies II
   Note: Students completing [BIOA01H3 and BIOA02H3] instead of BIOA11H3 will receive only 0.5 credit towards the program.

2. 2.5 credits at B-level:
   HLTB11H3 Basic Human Nutrition
   HLTB16H3 Introduction to Public Health
   HLTB22H3 Biological Determinants of Health
   PHLB09H3 Biomedical Ethics
   STAB22H3 Statistics I

3. 1.0 credit:
   HLTB15H3 Introduction to Health Research Methodology
   ANTC67H3 Foundations in Epidemiology

4. 0.5 credit at the D-level in HLT courses

OPTIONS (2.5 credits)

5. 0.5 credit at the B-level from the following:
   HLTB41H3 Introduction to the Social Determinants of Health
Health Studies

HLTB42H3 Perspectives of Culture, Illness and Healing
HLTB50H3 Introduction to Health Humanities

6. 0.5 credit at the B-level from the following:
GGRB28H3 Geographies of Disease
HLTB17H3 Conceptual Models of Health
HLTB20H3 Contemporary Human Evolution and Variation
HLTB21H3 Infectious Diseases
HLTB41H3 Introduction to the Social Determinants of Health (if not used towards requirement 5)
HLTB50H3 Introduction to Health Humanities (if not used towards requirement 5)
STAB27H3 Statistics II

7. 1.5 credits at the C-level from the following:
ANTC68H3 Deconstructing Epidemics
HLTC04H3 Critical Qualitative Health Research Methods
HLTC18H3 Determinants of Health, and Health Disparities
HLTC21H3 Patterns of Health, Disease and Injuries
HLTC22H3 Health, Aging and the Life Cycle
HLTC23H3 Issues in Child Health and Development
HLTC24H3 Environment and Health

MAJOR (CO-OPERATIVE) PROGRAM IN HEALTH STUDIES - Population Health (SCIENCE)

Co-op Contact: askcoop@utsc.utoronto.ca

Program Admission
This is a limited enrolment program, which must be completed in conjunction with another Major as part of a 4-year degree. For information on admissions, fees, work terms, and standing in the program, please see the Social Sciences and Humanities Co-operative Programs section of this Calendar.

Minimum qualifications for entry following first year: 4.0 credits, registration in the Major program in Health Studies –Population Health, and a cumulative GPA of at least 2.5.

Program Requirements
Work terms will be in the health and health-related sectors, and may be in public institutions, in research institutions, and in the private sector. There are two work terms, each of 4 months. In order to be eligible for the first work term, students must complete at least 9 full credits, including the first 4.5 credits listed in one of the two streams in the Health Studies program. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

Course Requirements
See requirements for Major Program in Health Studies –Population Health (BSc).

MAJOR PROGRAM IN HEALTH STUDIES - Health Policy (ARTS)

This program requires the completion of 8.0 credits, as described below.

CORE (5.5 Credits)

1. 1.0 credit at A-level:
HLTA02H3 Foundations of Health Studies I
HLTA03H3 Foundations of Health Studies II

2. 2.5 credits as follows:
HLTB16H3 Introduction to Public Health
HLTB41H3 Introduction to the Social Determinants of Health
HLTB50H3 Introduction to Health Humanities
PHLB09H3 Biomedical Ethics
STAB22H3 Statistics I

3. 1.5 credits as follows:
HLTB15H3 Introduction to Health Research Methodology
HLTB40H3 Health Policy and Health Systems
ANTC67H3 Foundations in Epidemiology

4. 0.5 credit at the D-level in HLT courses

OPTIONS (2.5 credits)

5. 0.5 credit at the B-level from the following:
   HLTB11H3 Basic Human Nutrition
   HLTB20H3 Contemporary Human Evolution and Variation

6. 0.5 credit at the B-level from the following:
   GGRB28H3 Geographies of Disease
   HLTB11H3 Basic Human Nutrition (if not used towards requirement 5)
   HLTB17H3 Conceptual Models of Health
   HLTB20H3 Contemporary Human Evolution and Variation (if not used towards requirement 5)
   HLTB42H3 Perspectives of Culture, Illness and Healing
   IDSB04H3 Introduction to International/Global Health*
   *Note: IDSB04H3 has prerequisites that are not part of this program.

7. 1.5 credits at the C-level from the following:
   ANTC24H3 Culture, Mental Illness, and Psychiatry
   ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective
   HLTcoc2H3 Gender and Health
   HLTc04H3 Critical Qualitative Health Research Methods
   HLTc05H3 Society, Health and Illness
   HLTc18H3 Determinants of Health, and Health Disparities
   HLTc22H3 Health, Aging and the Life Cycle
   HLTc23H3 Issues in Child Health and Development
   HLTc42H3 Emerging Health Issues and Policy Needs
   HLTc43H3 Politics of Canadian Health Policy
   HLTc44H3 Comparative Health Policy Systems
   HLTc50H3 The Human-Animal Interface
   IDSC11H3 Issues in Global and International Health*
   *Note: IDSC11H3 has prerequisites that are not part of this program.

MAJOR (CO-OPERATIVE) PROGRAM IN HEALTH STUDIES - Health Policy (ARTS)

Co-op Contact: askcoop@utsc.utoronto.ca

Program Admission
This is a limited enrolment program, which must be completed in conjunction with another Major as part of a 4-year degree. For information on admissions, fees, work terms, and standing in the program, please see the Social Sciences and Humanities Co-operative Programs section of this Calendar.

Minimum qualifications for entry following first year: 4.0 credits, registration in the Major program in Health Studies –Health Policy, and a cumulative GPA of at least 2.5.

Program Requirements
Work terms will be in the health and health-related sectors, and may be in public institutions, in research institutions, and in the private sector. There are two work terms, each of 4 months. In order to be eligible for the first work term, students must complete at least 9 full credits, including the first 4.5 credits listed in one of the two streams in the Health Studies program. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

Course Requirements
See requirements for Major Program in Health Studies –Health Policy (BA).
Health Studies

MINOR PROGRAM IN HEALTH STUDIES (ARTS)

Enrolment in the Minor program in Health Studies has been suspended indefinitely. Students who enrolled at UTSC prior to the 2013 Summer Session should refer to the 2012/2013 UTSC Calendar.

Health Studies Courses

HLTA02H3 Foundations in Health Studies I
This the first part of a sequence of two courses designed to introduce theory, contemporary topics, and analytical techniques related to the study of health issues. Examples of topics include: social determinants of health, basic anatomy, introduction to child development, introduction to the life course and aging, disease, health economics and policy, and applicable research methods.
Breadth Requirement: Social & Behavioural Sciences

HLTA03H3 Foundations in Health Studies II
This the second part of a sequence of two courses designed to introduce theory, contemporary topics, and analytical techniques related to the study of health issues. Examples of topics include: social determinants of health, basic anatomy, introduction to child development, introduction to the life course and aging, disease, health economics and policy, and applicable research methods.
Prerequisite: HLTA02H3
Breadth Requirement: Social & Behavioural Sciences

HLTB11H3 Basic Human Nutrition
An introductory course to provide the fundamentals of human nutrition to enable students to understand and think critically about the complex interrelationships between food, nutrition, health and environment.
Prerequisite: HLTA02H3 and HLTA03H3
Exclusion: NFS284H1
Breadth Requirement: Natural Sciences

HLTB15H3 Introduction to Health Research Methodology
The objective of this course is to introduce students to the main principles that are needed to undertake health-related research. Students will be introduced to the concepts and approaches to health research, the nature of scientific inquiry, the role of empirical research, and epidemiological research designs.
Prerequisite: [HLTA02H3 and HLTA03H3 and any Statistics course] or [any 4.0 credits, including SOCB60H3]
Exclusion: (HLTA10H3)
Enrolment Limits: 150; Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science - Health Informatics stream, Health Studies).
Breadth Requirement: Social & Behavioural Sciences

HLTB16H3 Introduction to Public Health
This course will present a brief history about the origins and development of the public health system and its role in health prevention. Using a case study approach, the course will focus on core functions, public health practices, and the relationship of public health with the overall health system.
Prerequisite: HLTA02H3 and HLTA03H3
Enrolment Limits: Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science - Health Informatics stream, Health Studies).
Breadth Requirement: Social & Behavioural Sciences

HLTB17H3 Conceptual Models of Health
Students will be introduced to the diverse theoretical dimensions of health conceptualization. This course will trace the historical development of health models through their origin in the 1970s to the present day life course perspective. Emphasis will be given to the development of Canadian health system models.
Prerequisite: HLTA02H3 and HLTA03H3
Enrolment Limits: Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science - Health Informatics stream, Health Studies).
Breadth Requirement: Social & Behavioural Sciences

HLTB20H3 Contemporary Human Evolution and Variation
Basic to the course is an understanding of the synthetic theory of evolution and the principles, processes, evidence and application of the theory. Laboratory projects acquaint the student with the methods and materials utilized in Biological Anthropology. Specific topics include: the development of evolutionary theory, the biological basis for human variation, the evolutionary forces, human adaptability and health and disease.
Science credit
Same as ANTB15H3
Prerequisite: ANTA01H3 or [HLTA02H3 and HLTA03H3]
Exclusion: ANTB15H3, ANT203Y
Breadth Requirement: Natural Sciences

HLTB21H3 Infectious Diseases
This course considers the origins, antiquity, and impact of plagues on human societies from cultural, evolutionary, epidemiological, and ecological perspectives. The course will start with an introduction to disease ecology followed by a focus on historic, contemporary, and newly-emerging epidemics. The aim is to understand why “plagues” emerge and how their occurrence is intimately linked to human behavior. The main goal is to provide insight into the struggles of attaining disease control and the challenges of forecasting emerging plagues.
Prerequisite: HLTA02H3 and HLTA03H3
Enrolment Limits: Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science - Health Informatics stream, Health Studies).
Breadth Requirement: Natural Sciences

HLTB22H3 Biological Determinants of Health
This course is an introduction to the basic biological principles underlying the origins and development of both infectious and non-infectious diseases in human populations. It covers population genetics and principles of inheritance.
Prerequisite: HLTA02H3 and HLTA03H3 and [BIOA11H3 or [BIOA01H3 and BIOA02H3]]
Enrolment Limits: Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science - Health Informatics stream, Health Studies).
Breadth Requirement: Natural Sciences
HLTB44H3 Introduction to Social Determinants of Health
This course introduces students to Social Determinants of Health (SDOH) approaches to reducing health inequities, and improving individual and population health. Students will critically explore the social, political, economic, and historic conditions that shape the everyday lives, and influence the health, of people.
Prerequisite: HLTB02H3 and HLTB03H3
Breadth Requirement: Social & Behavioural Sciences

HLTB05H3 Introduction to Health Humanities
An introduction to human health through literature, narrative, and the visual arts. Students will develop strong critical skills in text-centered methods of analysis (i.e., the written word, visual images) through topics including representations of health, illness narratives, death and dying, patient-professional relationships, technoscience and the human body.
Prerequisite: Any 4.0 credits
Recommended Preparation: Prior experience in humanities courses at the secondary or post-secondary level.
Breadth Requirement: Arts, Literature & Language
NOTE: Preference will be given to students enrolled in a Health Studies program.

HLTC02H3 Women and Health: Past and Present
This course uses historical, anthropological, philosophical approaches to further understand the relationships intertwining women, health and society. Women's interactions with the health sector will be examined. Particular attention will be devoted to the social and gender construction of disease and the politics of women's health.
Prerequisite: HLTB17H3
Breadth Requirement: Social & Behavioural Sciences

HLTC04H3 Critical Qualitative Health Research Methods
Students will develop a curiosity and awareness about critical approaches to studying health and illness. They will learn what it means to be a critical qualitative health researcher. They will understand how to engage in transformative critical health research practice that questions taken-for-granted assumptions about the social world, and, in the process, students will develop new conceptual and applied skills. Students will draw from interdisciplinary knowledge sources to develop strategies for designing and carrying out critically informed health research projects.
Prerequisite: HLTB15H3
Recommended Preparation: Prior experience in social sciences courses.
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC05H3 Society, Health and Illness
Students gain theoretical and practical skills to think about, and analyze, health inequalities, and also develop an understanding of illness and inequality as socially produced phenomena. Critical perspectives about the cultural, historic, political and structural conditions that shape people's living conditions are emphasized. Dominant ideas about health inequalities are challenged through engagement with social sciences literature.
Prerequisite: HLTB40H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC18H3 Determinants of Health, and Health Disparities
This course will introduce students to the population health approach (including health policy) that takes action on the factors, and the interrelationships between factors, that contribute to health and health disparities. Key determinants of health as described by the Public Health Agency of Canada will be examined using case studies.
Prerequisite: HLTB22H3 or HLTC05H3 [Note: HLTC05H3 may also be taken as a co-requisite]
Recommended Preparation: Prior experience in the biological sciences at the post-secondary level.
Enrolment Limits: 60; Restricted to students in health studies and health science programs (e.g. Human Biology, Mental Health Studies, Computer Science – Health Informatics stream, Health Studies).
Breadth Requirement: Natural Sciences

HLTC21H3 Patterns of Health, Disease and Injuries
This course will introduce students to regional, national, and global patterns of health, disease, and injuries. The course will demonstrate how demography and epidemiology can be used to examine these patterns and assess the cause of health-related problems, in order to provide a basis for broad-based preventative action.
Prerequisite: HLTB22H3
Exclusion: (HLTC07H3)
Enrolment Limits: 60
Breadth Requirement: Natural Sciences

HLTC22H3 Health, Aging and the Life Cycle
This course focuses on the transition from birth to old age and changes in health status. Topics to be covered include: socio-cultural perspectives on aging, the aging process, chronic and degenerative diseases, caring for the elderly.
Prerequisite: HLTB22H3
Exclusion: (HLTB01H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

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Health Studies

HLTC23H3 Issues in Child Health and Development
This course will explore bio-social aspects of health and development in children. Topics for discussion include genetics and development, growth and development, childhood diseases, the immune system, and nutrition during the early years.
Prerequisite: HLTB22H3
Exclusion: (HLTB02H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC24H3 Environment and Health
Environmental issues are often complex and require a holistic approach where the lines between different disciplines are often obscured. The environment, as defined in this course, includes the natural (biological) and built (social, cultural, political) settings. Health is broadly defined to include the concept of well-being. Case studies will be used to illustrate environment and health issues using an ecosystem approach that includes humans as part of the ecosystem.
Prerequisite: HLTB22H3
Exclusion: (ANTB56H3), (HLTB04H3)
Enrolment Limits: 60
Breadth Requirement: Natural Sciences

HLTC42H3 Emerging Health Issues and Policy Needs
This course takes an interdisciplinary approach to helping students prepare to tackle complex emerging health issues and to explore ways of addressing these issues through public policy. A range of contemporary and newly-emerging health issues are discussed and analyzed in the context of existing policy constraints within Canada and worldwide.
Prerequisite: HLTB40H3
Exclusion: (ANTB56H3), (HLTC03H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC43H3 Politics of Canadian Health Policy
This course examines the role of all levels of Canadian government in health and health care. The impact of public policies, health care policy, and access to health care services on the health of populations is considered. The course also examines the role of political parties and social movements in the policy change process.
Prerequisite: HLTB40H3
Exclusion: (POLC55H3), (HLTC03H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC44H3 Comparative Health Policy Systems
This course surveys a select of health care systems worldwide in relation to financing, reimbursement, delivery systems and adoption of new technologies. In this course students will explore questions such as: which systems and which public/private sector mixes are better at achieving efficiency and equity? How do these different systems deal with tough choices, such as decisions about new technologies? The set of international health care systems we focus on are likely to vary by term but will include a subset of OECD countries as well as countries with large populations that are heavily represented in Toronto such as China and India.
Prerequisite: HLTB40H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

HLTC50H3 The Human-Animal Interface
An intensive, interdisciplinary study of the human-animal relationship as represented through a range of literature, film, and other critical writings. Students will explore the theoretical underpinnings of “animality” as a critical lens through which human identity, health, and policy are conceptualized. Key topics include: animals in the human imagination, particularly in relation to health; animal-human mythologies; health, ethics, and the animal.
Prerequisite: HLTB50H3
Recommended Preparation: Prior experience in humanities courses at the secondary or post-secondary level.
Breadth Requirement: Arts, Literature & Language

HLTD01H3 Directed Readings in Health Studies
This is an advanced reading course in special topics for upper level students who have completed the available basic courses in Health Studies and who wish to pursue further intensive study on a relevant topic. Topic selection and approval will depend on the supervising instructor.
Prerequisite: Completion of at least 6.0 credits from the requirements of one of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Recommended Preparation: Completion of at least 3 C-level HLT courses.
Enrolment Limits: 30

HLTD02H3 Health Research Seminar
Provides senior students with the opportunity to apply methodological skills to a health research problem. Students will give presentations of their research proposals, and there may be a guest seminar on health research projects.
Prerequisite: Completion of at least 6.0 credits from the requirements of one of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Recommended Preparation: Completion of at least 3 C-level HLT courses.
Enrolment Limits: 30

HLTD04H3 Special Topics in Health
The topics presented in this course will represent a range of contemporary issues in health research. Topics will vary by instructor and term.
Prerequisite: Completion of at least 6.0 credits from the requirements of the Major/Major Co-operative programs in Health Studies & a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Recommended Preparation: Completion of 3 C-level HLT courses.
Enrolment Limits: 30

HLTD05H3 Directed Research on Health Services and Institutions
Provides students with the opportunity to analyze work of health institutions. Students taking this course will arrange, in consultation with the instructor, to work as a volunteer in a health institution. They will write a major research paper related to some aspect of their experience.
Prerequisite: Completion of HLT02H3 and HLT03H3 and at least 4.0 credits from the requirements of one of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Exclusion: (HLTC01H3)
Recommended Preparation: Completion of 3 C-level HLT courses.
Enrolment Limits: 30
HLTD06H3 Special Topics in Migration and Public Health
The focus of this seminar is on public health as an institution and on the contemporary and historical practices related to migrants in Canada and globally. Practices include surveillance, screening, detention, and quarantine, among other forms of governance and regulation. Societal issues, social theory, and historic case studies drawn from literature, film and empirical research explore enduring questions and tensions related to the treatment of migrants by public health systems.
Prerequisite: [HLTB16H3 and HLTC05H3] and [1.5 credits at the C-level in HLT courses] and [a minimum CGPA of 2.5] or [SOCB60H3 and an additional 15.0 credits]
Recommended Preparation: Courses in the social sciences (ANT, HLT, IDS, CIT, GGR, POL, SOC)
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

HLTD12H3 Special Topics in Health
The topics presented in this course will represent a range of contemporary issues in health research. Topics will vary by instructor and term.
Prerequisite: [Completion of at least 6.0 credits from the requirements of the Major/Major Co-op programs in Health Studies] and [a minimum CGPA of 2.7 in HLT courses] and [permission of the instructor]
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

HLTD21H3 Special Topics in Health
The topics presented in this course will represent a range of contemporary issues in health research. Topics will vary by instructor and term.
Prerequisite: Completion of at least 6.0 credits from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.7 in HLT courses; and permission of the instructor.
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

HLTD22H3 Special Topics in Health
The topics presented in this course will represent a range of contemporary issues in health research. Topics will vary by instructor and term.
Prerequisite: Completion of at least 6.0 credits from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

HLTD23H3 Special Topics in Health
The topics presented in this course will represent a range of contemporary issues in health research. Topics will vary by instructor and term.
Prerequisite: Completion of at least 6.0 credits from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5 in HLT courses; and permission of the instructor.
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

HLTD50H3 Special Topics in Health Humanities
This advanced seminar will provide intensive study of a selected topic in and/or theoretical questions about the health humanities. Topics will vary by instructor and term but may include narrative medicine, stories of illness and healing, representations of older age and aging in literature and film, AIDS and/or cancer writing, representations of death and dying in literature and film, the role of creative arts in health.
Prerequisite: HLTB50H3
Recommended Preparation: Completion of at least 3 C-level HLT courses.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

HLTD51H3 Aging and the Arts
In this advanced seminar students will examine older age using the methods and materials of the humanities, with particular focus on: 1) the representation of aging and older age in the arts; and 2) the role of arts-based therapies and research initiatives involving older people and/or the aging process.
Prerequisite: HLTB50H3
Recommended Preparation: Prior experience in humanities courses at the secondary or post-secondary level.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students entering Year 4 of the Health Studies programs.
Historical and Cultural Studies

Historical and Cultural Studies Courses

HCSD05H3  Intellectual Property in Arts and Humanities
The course provides an introduction to Canada’s intellectual property (IP) systems, copyright, patent, trademark and confidential information.
Topics include use, re-use and creation of IP, the impact of the digital environment, the national implication of international agreements and treaties and information policy development.
Prerequisite: Any 2.0 credits; and an additional 2.0 credits at the C-level in ACM, CFL, HCS, ENG and PHL
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies
History

Faculty List

- D.E. Bender, M.A., Ph.D. (New York), Canada Research Chair, Professor
- C. Berkowitz, Ph.D. (Toronto), Associate Professor, Teaching Stream
- K. Blouin, M.A., Ph.D. (Laval and Nice), Associate Professor
- L. Chen, M.A. (SUNY Buffalo), J.D. (Illinois), M.A., Ph.D. (Columbia), Associate Professor
- E.W. Dowler, M.A. (Harvard), Ph.D. (London School of Economics), Professor Emeritus
- M. Eksteins, B.Phil., D.Phil. (Oxon.), Professor Emeritus
- D. Gabaccia, M.A., Ph.D. (Michigan), Professor
- M. Gervers, A.B. (Princeton), M.A. (Poitiers), Ph.D. (Toronto), Professor
- A. Grewal, M.A., Ph.D. (Chicago), Assistant Professor
- R. Halpern, M.A. (Wisconsin), Ph.D. (Pennsylvania), Professor
- P. Hastings, M.A. (Carlton), Ph.D. (Duke), Assistant Professor
- F. Iacovetta, M.A., Ph.D. (York), Professor
- R.A. Kazal, M.A., Ph.D. (Pennsylvania), Associate Professor
- J.S. Moir, M.A., Ph.D. (Toronto), D.D. (Presb. College, Montreal), Professor Emeritus
- W. Nelson, M.A., Ph.D. (UCLA), Assistant Professor
- J. Pilcher, M.A. (New Mexico), Ph.D. (Texas Christian), Professor
- B. Raman, M.A., Ph.D. (Michigan), Associate Professor
- I.R. Robertson, M.A. (McGill), Ph.D. (Toronto), Professor Emeritus
- S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
- E.N. Rothman, M.A. (Tel Aviv), Ph.D. (Michigan), Associate Professor
- J. Sharma, M.A. (Delhi), M.Phil. (Delhi), Ph.D. (Cambridge), Associate Professor
- A. Sheps, M.A., Ph.D. (Toronto), Associate Professor Emeritus

Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca

The study of History is vital for our understanding of the present. It offers multiple ways of explaining both how the contemporary world emerged, and how past societies differed from our own. The History Program at UTSC provides a dynamic introduction to the global transformations that have taken place over the past two millennia, while also focusing on the experiences and contributions of ordinary men and women to these transformations. Our curriculum spans the history of all parts of the world in their complex, transnational connections, and covers a broad range of topics, including religion and everyday life, colonialism, the relations between women and men, the history of work, the environment, urbanization, immigration, race and ethnicity, and material culture. Findings in history depend upon the precise evaluation of specific evidence, be it texts, images, or objects, and the History Program emphasizes the critical reading, research, and writing skills which are necessary for the study of the past and for a wide range of professional activities beyond the university. Innovative and interdisciplinary, History courses play a part in a number of other programs, including Classics, Global Asia Studies, and Intersections in the Humanities, and can also complement and enhance courses in Politics, Philosophy, Literature, Arts, Economics, Sociology, and Anthropology.

The History curriculum encompasses a variety of approaches in order to build a range of knowledge and skills. A-level courses provide both a general introduction to the study of history at the university level and the preparation for further studies in transnational and global history. B-level surveys offer a comprehensive foundation of knowledge in their particular areas, including the histories of particular nation-states and regions of the world. In C-level courses, students investigate more specific places, periods, or problems through lectures and tutorials. D-level courses are conducted as seminars, where students make close and thorough studies of particular questions and present their findings in discussions, essays, and research papers. History courses at all levels cover a range of periods, from antiquity to the present, and explore a variety of world regions, from North America and Africa, through Europe and the Mediterranean, to South and East Asia. The History curriculum as a whole stresses training in writing, research, and historical methods; these skills are also the focal point of two specialized courses, HISB03H3-Critical Writing and Research for Historians and HISC01H3-History and Evidence.

Knowledge of other languages is essential to advanced study in history. If you plan to take history to an advanced level, we strongly encourage early study of an appropriate language for your program or areas of interest. Specialists may enrol in the Language Stream, which is designed to foster such language training.

For updates and detailed information regarding History please visit the Historical and Cultural Studies website at: www.utsc.utoronto.ca/~humdiv/prg_hi.html

Guidelines for 1st year course selection

Students intending to complete a program in History should take two of the following courses in the first year: HISA04H3, HISA05H3, HISA06H3/GASA01H3, HISA07H3/CLAA04H3.

Notes:
1. Students are advised to consult the prerequisites for C-level and D-level courses when planning their individual Programs.
2. For Co-op opportunities related to the Specialist and Major Programs in History, please see the Humanities and Social Sciences Co-operative section of this Calendar.

History Programs

SPECIALIST PROGRAM IN HISTORY (ARTS)

Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete at least 12.0 credits in History, including:

1. Two of the following (1.0 credit):
   HISA04H3 Themes in World History I
   HISA05H3 Themes in World History II
   HISA06H3/GASA01H3 Introducing Global Asia and its Histories
   HISA07H3/CLAA04H3 The Ancient Mediterranean World

2. 1.0 credit as follows:
   HISB03H3 Critical Writing and Research for Historians
   HISC01H3 History and Evidence

3. 4.5 credits at the C-level.
4. 1.0 credit at the D-level.
5. Pre-1800 credits:
   2.0 credits must deal with the period prior to 1800.

6. Areas of Study:
   Students must take 1.0 credit in Canadian history and 4.0 credits distributed over four of the following areas of history:
   1. United States and Latin America
   2. Medieval
   3. European
   4. Africa and Asia
   5. Transnational
   6. Ancient World

Specialist Program in History--Language Stream
Students registered in the Specialist Program in History have the option of registering in the Language Stream. Students in the Language Stream must complete the Specialist Program in History and 2.0 credits in a single language. This option is designed to encourage Specialists to undertake language study with an eye to engaging historical writing and sources in the original language. Specialists who wish to demonstrate proficiency in a given language on their transcript should undertake the additional study that would qualify them for the UTSC Language Citation.

MAJOR PROGRAM IN HISTORY (ARTS)

Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete at least 7.0 credits in History, including:

1. Two of the following (1.0 credit):
   HISA04H3 Themes in World History I
   HISA05H3 Themes in World History II
   HISA06H3/GASA01H3 Introducing Global Asia and its Histories
   HISA07H3/CLAA04H3 The Ancient Mediterranean World

2. 0.5 credit as follows:
   HISB03H3 Critical Writing and Research for Historians

3. 3.0 credits at the C- or D-level.
4. Pre-1800 credits:
   1.5 credits must deal with the period prior to 1800
5. Areas of Study:
   Students must take 1.0 credit in Canadian history and at least 0.5 credit in two of the following areas of history:
   1. United States and Latin America
   2. Medieval
   3. European
   4. Africa and Asia
   5. Transnational
   6. Ancient World

MINOR PROGRAM IN HISTORY (ARTS)

Undergraduate Advisor: 416-287-7184 Email: history-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete four (4.0) credits in History, of which at least one (1.0) credit must be at the C- and/or D-level.

History Courses

HISA04H3 Themes in World History I
   An introduction to history that focuses on a particular theme in world history, which will change from year to year. Themes may include migration; empires; cultural encounters; history and film; global cities. Breadth Requirement: History, Philosophy & Cultural Studies

HISA05H3 Themes in World History II
   An introduction to history that focuses on a particular theme in world history, which will change from year to year. Themes may include migration; empires; cultural encounters; history and film; global cities. Breadth Requirement: History, Philosophy & Cultural Studies

HISA06H3 Introducing Global Asia and its Histories
   This course introduces Global Asia Studies through studying historical and political perspectives on Asia. Students will learn how to critically analyze major historical texts and events to better understand important cultural, political, and social phenomena involving Asia and the world. They will engage in intensive reading and writing for humanities. Same as GAS01H3
   Exclusion: GAS01H3
   Breadth Requirement: History, Philosophy & Cultural Studies

HISA07H3 The Ancient Mediterranean World
   An introduction to the main features of the ancient civilizations of the Mediterranean world from the development of agriculture to the spread of Islam. Long term socio-economic and cultural continuities and ruptures will be underlined, while a certain attention will be dedicated to evidences and disciplinary issues. Same as CLA04H3
   Exclusion: CLA04H3
   Breadth Requirement: History, Philosophy & Cultural Studies

HISB02H3 The British Empire: A Short History
   The British Empire at one time controlled a quarter of the world’s population. This course surveys the nature and scope of British imperialism from the sixteenth to the twentieth century, through its interactions with people and histories of Asia, Africa, the Americas, the Caribbean, the Pacific, and the British Isles. Transnational Area
   Breadth Requirement: History, Philosophy & Cultural Studies

HISB03H3 Critical Writing and Research for Historians
   Practical training in critical writing and research in History. Through lectures, discussion and workshops, students will learn writing skills (including essay organization, argumentation, documentation and bibliographic style), an introduction to methodologies in history and basic source finding techniques. Exclusion: (HISB01H3)
   Enrolment Limits: 25
   Breadth Requirement: History, Philosophy & Cultural Studies

HISB07H3 History and Culture of the Greek World
   A survey of the history and culture of the Greek world from the Minoan period to the Roman conquest of Egypt (ca 1500-30 BC). Special attention will be dedicated to the nature, variety and limits of the available evidences, to socio-cultural interactions as well as to historical processes of continuities and ruptures. Same as CLA05H3
   0.50 pre-1800 credit
   Ancient World Area
   Exclusion: CLA05H3, CLA230H
   Breadth Requirement: History, Philosophy & Cultural Studies

HISB01H3 History and Culture of the Roman World
   A survey of the history and culture of the ancient Roman world, from the Etruscan period to the Justinian dynasty (ca 800 BC-600 AD). Special attention will be dedicated to the nature, variety and limits of the available evidences, to socio-cultural interactions as well as to historical processes of continuities and ruptures. Same as CLA06H3
   0.5 pre-1800 credit
   Ancient World Area
   Exclusion: CLA06H3, CLA231H
   Breadth Requirement: History, Philosophy & Cultural Studies
HISB12H3 The Classical World in Film
The representation of the classical world and historical events in film. How the Greek and Roman world is reconstructed by filmmakers, their use of spectacle, costume and furnishings, and the influence of archaeology on their portrayals. Films will be studied critically for historical accuracy and faithfulness to classical sources.
Same as CLAB20H3
Exclusion: CLAB20H3, CLA388H
Recommended Preparation: CLAA05H3 or CLAA06H3 or (CLAA02H3) or (CLAA03H3)
Breadth Requirement: History, Philosophy & Cultural Studies

HISB14H3 Edible History: History of Global Foodways
An exploration of how eating traditions around the world have been affected by economic and social changes, including imperialism, migration, the rise of a global economy, and urbanization. Topics include: immigrant cuisines, commodity exchanges, and the rise of the restaurant. Lectures will be supplemented by cooking demonstrations.
Transnational Area
Exclusion: (HISC14H3)
Breadth Requirement: History, Philosophy & Cultural Studies

HISB23H3 Latin America and the World
This class will examine Latin America's social and cultural history from the ancient Aztecs and Incas to the twentieth-century populist revolutions of Emiliano Zapata and Evita Perón. It will also focus on Latin America's connections to the wider world through trade, migration, and cuisine.
Exclusion: HIS290H, HIS291H, HIS292H
Enrolment Limits: 75
Breadth Requirement: History, Philosophy & Cultural Studies

HISB30H3 American History to the Civil War
A survey of American history from contact between Indians and Europeans up through the Civil War. Topics include the emergence of colonial societies; the rise and destruction of racial slavery; revolution and republic-making; economic and social change in the new nation; western conquest; and the republic's collapse into internal war.
United States and Latin America Area
Exclusion: HIS271Y
Breadth Requirement: History, Philosophy & Cultural Studies

HISB31H3 History of the United States since the Civil War
This course offers a survey of U.S. history from the post-Civil War period through the late 20th century, examining key episodes and issues such as settlement of the American West, industrialization, urbanization, immigration, popular culture, social movements, race relations, and foreign policy.
United States and Latin America Area
Exclusion: HIS271Y
Breadth Requirement: History, Philosophy & Cultural Studies

HISB37H3 History of Mexico
This class will examine Mexico's social and cultural history from the ancient Aztecs through the Spanish Conquest to the twentieth-century revolutionary movements led by Pancho Villa and Emiliano Zapata. It will also focus on Mexico's connections to the wider world through trade, migration, and cuisine.
Breadth Requirement: History, Philosophy & Cultural Studies

HISB40H3 Early Canada and the Atlantic World
The history of northern North America from the first contacts between Europeans and Aboriginal peoples to the late 19th century. Topics include the impact of early exploration and cultural encounters, empires, trans-Atlantic migrations, colonization and revolutions on the development of northern North America.
Canadian Area
Exclusion: (HIS262Y), HIS263Y
Breadth Requirement: History, Philosophy & Cultural Studies

HISB41H3 Making of Modern Canada
Students will be introduced to historical processes central to the history of Canada's diverse peoples and the history of the modern age more generally, including the industrial revolution, women's entry in social and political "publics," protest movements, sexuality, and migration in the context of international links and connections.
Enrolment Limits: 125
Breadth Requirement: History, Philosophy & Cultural Studies

HISB50H3 Africa in the Era of the Slave Trade
An introduction to the history of Sub-Saharan Africa, from the era of the slave trade to the colonial conquests. Throughout, the capacity of Africans to overcome major problems will be stressed. Themes include slavery and the slave trade; pre-colonial states and societies; economic and labour systems; and religious change.
Africa and Asia Area
Same as AFSB50H3
Prerequisite: Any modern history course or AFSA01H3.
Exclusion: AFSB50H3, (HISC50H3), HIS295H, HIS396H, (HIS396Y)
Breadth Requirement: History, Philosophy & Cultural Studies

HISB51H3 Twentieth Century Africa
Modern Sub-Saharan Africa, from the colonial conquests to the post-colonial era of structural adjustment. The emphasis is on both structure and agency in a hostile world. Themes include conquest and resistance; colonial economies; gender and ethnicity; religious and political movements; development and underdevelopment, post-colonial conflicts, as well as cultural achievements.
Africa and Asia Area
Same as AFSB51H3
Exclusion: AFSB51H3, (HISC51H3), HIS396H, (HIS396Y)
Recommended Preparation: AFSA01H3 or AFSB50H3 or HISB50H3
strongly recommended.
Breadth Requirement: History, Philosophy & Cultural Studies

HISB53H3 Mughals and the World, 1500-1858 AD
Why does Southern Asia's pre-colonial history matter? Using materials that illustrate the connected worlds of Central Asia, South Asia and the Indian Ocean rim, we will query conventional histories of Asia in the time of European expansion.
Same as GASB53H3
0.5 pre-1800 credit
Africa & Asia Area
Exclusion: GASB53H3
Breadth Requirement: History, Philosophy & Cultural Studies
**HISB57H3 Sub-Continental Histories: South Asia in the World**
A survey of South Asian history. The course explores diverse and exciting elements of this long history, such as politics, religion, trade, literature, and the arts, keeping in mind South Asia's global and diasporic connections.

Africa and Asia Area
Same as GASB57H3
Exclusion: HIS282Y, HIS282H, GASB57H3
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB58H3 Modern Chinese History**
This course provides an overview of the historical changes and continuities of the major cultural, economic, political, and social institutions and practices in modern Chinese history.

Africa and Asia Area
Same as GASB58H3
Prerequisite: (HISA01H3) or (HISA02H3) or GASA01H3 or GASA02H3
Exclusion: HIS280Y, GASB58H3
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB60H3 Europe in the Early Middle Ages (305-1053)**
The development of Europe from the Late Roman period to the eleventh-century separation of the Roman and Byzantine Churches. The course includes the foundation and spread of Christianity, the settlement of "barbarians" and Vikings, the establishment of Frankish kingship, the Empire of Charlemagne, and feudalism and manorialism.

0.50 pre-1800 credit
Medieval Area
Exclusion: HIS220Y
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB61H3 Europe in the High and Late Middle Ages (1053-1492)**
An introduction to the social, political, religious and economic foundations of the Western world, including Church and State relations, the Crusades, pilgrimage, monasticism, universities and culture, rural exploitation, town development and trade, heresy, plague and war. Particular attention will be devoted to problems which continue to disrupt the modern world.

0.50 pre-1800 credit
Medieval Area
Exclusion: HIS220Y
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB62H3 The Early Modern Mediterranean, 1500-1800**
An exploration of the interplay of culture, religion, politics and commerce in the Mediterranean region from 1500 to 1800. Through travel narratives, autobiographical texts, and visual materials we will trace how men and women on the Mediterranean's European, Asian, and African shores experienced their changing world.

0.50 pre-1800 credit
Transnational Area.
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB93H3 Modern Europe I: The Nineteenth Century**
Europe from the French Revolution to the First World War. Major topics include revolution, industrialization, nationalism, imperialism, science, technology, art and literature.

European Area
Exclusion: HIS241H, (HISB90H3), (HISB92H3)
Breadth Requirement: History, Philosophy & Cultural Studies

**HISB94H3 Modern Europe II: The Twentieth Century**
Europe from the First World War to the present day. War, political extremism, economic crisis, scientific and technological change, cultural modernism, the Holocaust, the Cold War, and the European Union are among the topics covered.

European Area
Exclusion: HIS242H, (HISB90), (HISB92)
Breadth Requirement: History, Philosophy & Cultural Studies

**HISCO1H3 History and Evidence**
An examination of the nature and uses of evidence in historical and related studies. Historians use a wide variety of sources as evidence for making meaningful statements about the past. This course explores what is meant by history and how historians evaluate sources and test their reliability as historical evidence.

Prerequisite: HISB03H3
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC03H3 History of Animals and People**
An examination of the places of animals in global history. The course examines on-going interactions between humans and animals through hunting, zoos, breeding, and pets and the historical way the divide between humans and animals has been measured. Through animals, people have often thought about what it means to be human.

Same as (IEEC03H3)
Transnational Area
Prerequisite: Any 2.5 credits in History.
Exclusion: (HISD03H3), (IEEC03H3)
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC04H3 Drink in History**
This class seeks to recover a celebratory side of human experience that revolves around alcohol and stimulating beverages. Although most societies have valued psychoactive beverages, there has also been considerable ambivalence about the social consequences of excessive drinking. Students will examine drinking cultures through comparative historical study and ethnographic observation.

Prerequisite: 2.5 credits in HIS courses
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC05H3 Feeding the City, from Babylon to Brampton**
This course puts urban foods in world historical perspective using case studies from around the world and throughout time. Topics include provisioning, food preparation and sale, and cultures of consumption in courts, restaurants, street vendors, and domestic settings. Students will practice historical and geographical methodologies to map and interpret foodways.

Prerequisite: 1.0 credit in HIS courses
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC08H3 Colonialism on Film**
An examination of the depiction of empires and the colonial and postcolonial experience on film. This course also introduces students to the development of national cinemas in Asia, Africa, the Caribbean and the South Pacific. The relationship between academic history and history as imagined by filmmakers is a key theme.

Transnational Area
Prerequisite: Any 1.0 credit in History.
Exclusion: (HISB18H3)
Breadth Requirement: History, Philosophy & Cultural Studies
HISC09H3  Pirates of the Caribbean
This course examines early modern globalization through that cosmopolitan actor, the pirate. Beginning in the Caribbean, we will explore networks of capitalism, migration, empire, and nascent nationalism. By studying global phenomena through marginalized participants—pirates, maroons, rebels, and criminals—we seek alternate narratives on the modern world's origins.
Prerequisite: 1.0 credit in HIS courses
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

HISC10H3  Environment, Society and Economy in Ptolemaic and Roman Egypt
This course provides a review of the environmental, social and economic features of Egypt from 332 BC to 642 AD.
Same as (IEEC52H3), CLAC05H3
0.50 pre-1800 credit
Ancient World Area
Prerequisite: 2.0 credits in CLA or HIS courses, including 2 of the following [CLAA04H3/HISA07H3, CLAB05H3/HISB10H3, CLAB06H3/HISB11H3]
Exclusion: (IEEC52H3), CLAC05H3
Breadth Requirement: History, Philosophy & Cultural Studies

HISC11H3  Multiculturalism and Cultural Identities in the Greek and Roman Worlds
A critical examination of multiculturalism and cultural identities in the Greek and Roman worlds. Special attention will be dedicated to the evidences through which these issues are documented and to their fundamental influence on the formation and evolution of ancient Mediterranean societies and cultures.
Same as CLAC24H3
0.5 pre-1800 credit
Ancient World Area
Prerequisite: One full credit in Classics or History
Exclusion: CLAC24H3
Recommended Preparation: CLAB05H3 & CLAB06H3
Breadth Requirement: History, Philosophy & Cultural Studies

HISC18H3  Europe in the Enlightenment, 1700-1789
An examination of the ideals of the Enlightenment against the background of social and political change in eighteenth-century Europe. This course looks at Enlightenment thought and the ways in which European monarchs like Frederick the Great and Catherine the Great adapted it to serve their goals of state building.
0.50 pre-1800 credit
European Area
Prerequisite: 1.0 credit at B-level in European history
Exclusion: HIS244H, HIS341Y
Breadth Requirement: History, Philosophy & Cultural Studies

HISC26H3  The French Revolution and the Napoleonic Empire
The course will present the causes, processes, principles, and effects of the French Revolution. It will additionally present the relationship between the French Revolution and the Haitian Revolution, and look at the rise of Napoleon Bonaparte.
Exclusion: HIS457H
Breadth Requirement: History, Philosophy & Cultural Studies

HISC27H3  The History of European Sexuality: From Antiquity to the Present
The course will cover major developments in sexuality in Europe since antiquity. It will focus on the manner in which social, political, and economic forces influenced the development of sexuality. It will also analyze how religious beliefs, philosophical ideas, and scientific understanding influenced the ways that sexuality was understood.
Enrolment Limits: 60
Breadth Requirement: History, Philosophy & Cultural Studies

HISC28H3  Global Commodities: Nature, Culture, History
This course explores familiar commodities in terms of natural origins, everyday cultures of use, and global significance. It analyses environmental conditions, socio-economic transactions, political, religious, and cultural contexts around their production, distribution, and consumption. Commodity case studies will be selected among tea, opium, chocolate, rice, bananas, cotton, rubber, coffee, and sugar.
Transnational Area
Prerequisite: 1.5 credits in History
Recommended Preparation: 1.0 credit at the A-level in History, plus 0.5 credit at the B-level in Modern History
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in History

HISC30H3  The U.S. and the World
Collectively, immigrants, businesses, investors, missionaries, writers and musicians may have been as important as diplomats' geopolitical strategies in creating networks of connection and exchange between the United States and the world. This course focuses on the changing importance and interactions over time of key groups of state and non-state actors.
Prerequisite: HISB30H3 and HISB31H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

HISC32H3  The Emergence of Modern America, 1877-1933
Overview of the political and social developments that produced the modern United States in the half-century after 1877. Topics include urbanization, immigration, industrialization, the rise of big business and of mass culture, imperialism, the evolution of the American colour line, and how Americans expressed political desires. Politics, similarly, can be understood as a forum for cultural expression. Topics include imperialism, immigration and migration, the Cold War, and the "culture wars".
United States and Latin America Area
Prerequisite: HISB30H3 & HISB31H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

HISC33H3  Modern American Political Culture
An examination of the relationship between culture and politics in modern American history. The course considers culture as a means through which Americans expressed political desires. Politics, similarly, can be understood as a forum for cultural expression. Topics include imperialism, immigration and migration, the Cold War, and the "culture wars".
United States and Latin America Area
Prerequisite: [HISB30H3 & HISB31H3]
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies
**HISC36H3 People in Motion: Immigrants and Migrants in U.S. History**
Overview of the waves of immigration and internal migration that have shaped America from the colonial period to the present. Topics include colonization and westward migration, immigrants in the industrial and contemporary eras, nativism, stances towards pluralism and assimilation, and how migration experiences have varied by race, class, and gender.
United States and Latin America Area
Prerequisite: [HISB30H3 and HISB31H3] or [any 8.0 credits, including SOCBB60H3]
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC38H3 Mexico Through American Eyes**
This course focuses on the period of the Mexican revolution, 1910 through 1940, and will explore the influence of this political and social upheaval on changing cultural relations between the peoples of the United States and Mexico as seen through the work of foreign travellers, journalists, writers, filmmakers and photographers.
United States and Latin America Area
Prerequisite: HISB30H3 and HISB31H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC45H3 Immigrants and Race Relations in Canadian History**
An examination of aspects of the history of immigrants and race relations in Canada, particularly for the period 1840s-1960s. The course covers various immigrant and racialized groups and explores how class, gender and race/ethnicity shaped experiences and racial/ethnic relations.
Canadian Area
Prerequisite: Any 4.0 credits
Exclusion: HIS312H
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC46H3 Canada and the World**
A look at Canada's evolution in relation to developments on the world stage. Topics include Canada's role in the British Empire and its relationship with the U.S., international struggles for women's rights, Aboriginal peoples' sovereignty and LGBT equality, socialism and communism, the World Wars, decolonization, the Cold War, human rights, humanitarianism, and terrorism.
Canadian Area
Prerequisite: HISB40H3 or HISB41H3
Exclusion: HIS311H, HIS311Y
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC52H3 Ethiopia: Seeing History**
This course uses a focus on material history and visual culture to explore Ethiopia from the fourth through the nineteenth century, with particular emphasis on the Christian Church, the monarchy, links with both the Mediterranean world and the Indian subcontinent, and the relationship of individuals to their social, economic, artistic and geographic environments.
Same as AFSC52H3 and VPHC52H3
0.50 pre-1800 credit
Africa and Asia Area
Prerequisite: [1.0 credit in History] or [VPHA46H3 and ACMB01H3 and an additional 1.0 credit in VPH courses]
Exclusion: AFSC52H3, VPHC52H3
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC55H3 War and Society in Modern Africa**
Conflict and social change in Africa from the slave trade to contemporary times. Topics include the politics of resistance, women and war, repressive and weak states, the Cold War, guerrilla movements, resource predation. Case studies of anticolonial rebellions, liberation wars, and civil conflicts will be chosen from various regions.
Same as AFSC55H3
Africa and Asia Area
Prerequisite: AFSCB50H3/HISB50H3 or AFSCB51H3/HISB51H3 or (HISC50H3) or (HISC51H3)
Exclusion: AFSC55H3
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC56H3 Comparative Studies of East Asian Legal Cultures**
An introduction to the distinctive East Asian legal tradition shared by China, Japan, and Korea through readings about selected thematic issues. Students will learn to appreciate critically the cultural, political, social, and economic causes and effects of East Asian legal cultures and practices.
Same as GASC50H3
Africa and Asia Area
Prerequisite: HISB58H3 or an equivalent B-level history course in East Asia.
Exclusion: GASC50H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC57H3 China and the World**
A study of the history of China's relationship with the rest of the world in the modern era. The readings focus on China's role in the global economy, politics, religious movements, transnational diasporas, scientific/technological exchanges, and cultural encounters and conflicts in the ages of empire and globalization.
Africa and Asia Area
Same as GASC57H3
Prerequisite: HISA06H3 or HISB58H3
Exclusion: GASC57H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC58H3 Delhi and London: Imperial Cities, Mobile People**
Delhi and London were two major cities of the British Empire. This course studies their parallel destinies, from the imperial into the post-colonial world. It explores how diverse cultural, ecological, and migratory flows connected and shaped these cities, using a wide range of literary, historical, music, and film sources.
Transnational Area
Prerequisite: [Two of (HISA01H3), (HISA02H3), HISA04H3, HISA05H3] or 1.0 credit in Modern History
Breadth Requirement: History, Philosophy & Cultural Studies

**HISC59H3 The Making of Tamil Worlds**
This course explores the transnational history of Tamil worlds. In addition to exploring modern Tamil identities, the course will cover themes such as mass migration, ecology, social and economic life, and literary history.
Same as GASC59H3
Africa and Asia Area
Prerequisite: 4.0 credits and [an additional 0.5 credit in HCS or ANT courses]
Exclusion: GASC59H3, (HISB54H3), (GASC54H3)
Breadth Requirement: History, Philosophy & Cultural Studies
HISC60H3 Old Worlds? Strangers and Foreigners in the Mediterranean, 1200-1700
An exploration of how medieval and early modern societies encountered foreigners and accounted for foreignness, as well as for religious, linguistic, and cultural difference more broadly. Topics include: monsters, relics, pilgrimage, the rise of the university, merchant companies, mercenaries, piracy, captivity and slavery, tourism, and the birth of resident embassies.
Same as (IEEC51H3)
0.50 pre-1800 credit
Transnational Area
Corequisite: At least one of HISC60H3, HISC61H3 or HISC62H3
Exclusion: (IEEC51H3)
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

HISC65H3 Venice and its Empire, 800-1800
Social and cultural history of the Venetian Empire from a fishermen’s colony to the Napoleonic Occupation of 1797. Topics include the relationships between commerce and colonization in the Mediterranean, state building and piracy, aristocracy and slavery, civic ritual and spirituality, guilds and confraternities, households and families.
0.50 pre-1800 credit
European Area
Prerequisite: 1.0 credit in History
Breadth Requirement: History, Philosophy & Cultural Studies

HISC70H3 The Caribbean Diaspora
The migration of Caribbean peoples to the United States, Canada, and Europe from the late 19th century to the present. The course considers how shifting economic circumstances and labour demands, the World Wars, evolving imperial relationships, pan-Africanism and international unionism, decolonization, natural disasters, and globalization shaped this migration.
Prerequisite: Any 4.0 credits
Breadth Requirement: History, Philosophy & Cultural Studies

HISC75H3 Migration in Global History
A survey of human mobility from the era when humans first populated the earth to the global migrations of our own time. An introduction to the main categories of human movement and to historical and modern arguments for fostering or restricting migration.
Prerequisite: Any 4.0 credits
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

HISC96H3 Language and Society in the Arab World
An examination of the relationship between language, society and identity in North Africa and the Arabic-speaking Middle East from the dawn of Islam to the contemporary period. Topics include processes of Arabization and Islamization, the role of Arabic in pan-Arab identity, language conflict in the colonial and postcolonial periods; ideologies of gender and language among others.
Same as AFSC30H3
Prerequisite: Any B-level course in African Studies, Linguistics, History, or Women’s and Gender Studies
Exclusion: AFSC30H3
Enrolment Limits: 50
Breadth Requirement: Arts, Literature & Language

HISD01H3 Independent Studies: Senior Research Project
This option is available in rare and exceptional circumstances to students who have demonstrated a high level of academic maturity and competence. Qualified students will have the opportunity to investigate an historical field which is of common interest to both student and supervisor.
Prerequisite: At least 15.0 credits and completion of the requirements for the Major Program in History; written permission must be obtained from the instructor in the previous session.
Exclusion: (HIS497Y), HIS498H, HIS499H, HIS499Y

HISD02H3 Independent Studies: Senior Research Project
This option is available in rare and exceptional circumstances to students who have demonstrated a high level of academic maturity and competence. Qualified students will have the opportunity to investigate an historical field which is of common interest to both student and supervisor.
Prerequisite: At least 15.0 credits and completion of the requirements for the Major Program in History; written permission must be obtained from the instructor in the previous session.
Exclusion: (HIS497Y), HIS498H, HIS499H, HIS499Y

HISD04H3 Missionaries and Converts in the Early Modern World
A seminar exploring how early modern people thought about and practiced community, belief, and ritual. We will relate conversion to processes of empire building, and examine whether the "globalization of Christianity" is a useful concept through which to understand the experiences of missionaries and converts from 1500 to 1800.
0.50 pre-1800 credit
Transnational Area
Prerequisite: HISB62H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD05H3 Between Two Worlds? Translators and Interpreters in History
A seminar exploring the social history of translators, interpreters, and the texts they produce. Through several case studies from Ireland and Istanbul to Québec, Mexico City, and Goa, we will ask how translators shaped public understandings of “self” and “other,” “civilization” and “barbarity” in the wake of European colonization.
Transnational Area
Prerequisite: 1.0 credits, at or above the B-level, in History/GAS/IEE/CLA
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD06H3 Global History of Crime and Punishment since 1750
An exploration of the global problem of crime and punishment. The course investigates how the global processes of colonialism, industrialization, capitalism and liberalization affected modern criminal justice and thus the state-society relationship and modern citizenry in different cultures across time and space.
Same as GASD06H3
Transnational Area
Prerequisite: 8.0 credits completed including 1.0 credit in GAS or HIS courses at the B-level or above
Exclusion: GASD06H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
HISD07H3  Themes in the History of Childhood and Culture
A comparative analysis of transnational histories, and cultural and
gendered ideologies of children and childhood through case studies of
foundlings in Italy, factory children in England, orphans and adoption in
the American West, labouring children in Canada and Australia, and
mixed-race children in British India.
Transnational Area
Same as WSTD07H3
Prerequisite: At least 2 C-level courses in History and/or Women's and
Gender Studies.
Exclusion: WSTD07H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD08H3  Borderlands and Beyond: Thinking about a North American History
An examination of approaches to historical analysis that take us beyond
the national narrative beginning with the study of borderlands between
the United States and Mexico, comparing that approach with the study of
Canada/United States borderlands and finishing with themes of a North
American continental or transnational nature.
United States and Latin America Area
Prerequisite: [HISB30H3 & HISB31H3] or [HISB40H3 & HISB41H3]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD10H3  Water Management in the Ancient Mediterranean World
This seminar type course addresses issues related to the relationships
between ancient Mediterranean societies and their hydric environments
in the Mediterranean from 5000 BC to 600 AD.
Same as CLAD05H3
0.50 pre-1800 credit
Ancient World Area
Prerequisite: Any 11 full credits including 2 full credits in Classical
Studies or History
Exclusion: CLAD05H3
Recommended Preparation: CLAB05H3 & CLAB06H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD12H3  Making it Strange: Modernisms in European Art and Ideas, 1900-1945
The course will focus on major developments in art and ideas in early
twentieth century Europe. We will study experimental forms of art and
philosophy that fall under the broad category of Modernism, including
painting, music, literature, and film, as well as philosophical essays,
theoretical manifestos, and creative scholarly works.
Prerequisite: One C-level credit in European History
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD14H3  Selected Topics in Modern European History
This is a seminar-style course organized around a selected topic in
Modern European History.
Prerequisite: 7.5 credits in HIS courses, including [(HISB90H3) or
(HISB91H3) or (HISB92H3) or HISB93H3]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD16H3  Socialist Feminism in Global Context
A comparative exploration of socialist feminism, encompassing its
diverse histories in different locations, particularly China, Russia,
Germany and Canada. Primary documents, including literary texts,
magazines, political pamphlets and group manifestos that constitute
socialist feminist ideas, practices and imaginaries in different times and
places will be central. We will also seek to understand socialist feminism
and its legacies in relation to other contemporary stands of feminism.
Same as WSTD16H3
Transnational Area
Prerequisite: 8.0 credits, including [0.5 credit at the A-level in HIS or
WST courses] and [0.5 credit at the C-level in HIS or WST courses]
Exclusion: WSTD16H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students who have taken at least 0.5
credit at the A- or B-level in HIS or WST courses.

HISD18H3  Digital History
This seminar/lab introduces students to the exploding field of digital
history. Through a combination of readings and hands-on digital projects,
students explore how the Web radically transforms how both professional
historians and others envision the past and express these visions in
various media. Technical background welcome but not required.
Prerequisite: 8.0 credits completed, including [1.0 credit at the C-level in
HIS courses] and [0.5 credit in any AFS, CLA, GAS or WST courses]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students enrolled in the Specialist and
Major programs in History. Additional students will be admitted as
space permits.

HISD25H3  Oral History and Urban Change
An applied research methods course that introduces students to the
methods and practice of Oral history, the history of Scarborough, the field
of public history and community-based research. A critical part of
the class will be to engage in fieldwork related to designing and conducting
oral history interviews.
Canadian Area
Prerequisite: Any 4.0 credits in HIS courses
Exclusion: (HISC28H3), WSTC02H3 (if taken in Fall 2013), WSTD10H3,
HISD44H3 (if taken in Fall 2013), CITC10H3 (if taken in Fall 2013)
Enrolment Limits: 20
Breadth Requirement: History, Philosophy & Cultural Studies

HISD30H3  Gendering America
The history of gender in the United States from the era of exploration to
the present day. The changing social roles of men and women and the
evolving constructions of femininity and masculinity. Particular topics
include: work, family, sexuality, and state policy.
United States and Latin America Area
Prerequisite: [HISB30H3 & HISB31H3]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD31H3  Thinking of Diversity: Perspectives on American Pluralisms
A seminar exploring the evolution of American thinking about diversity --
ethic, religious, and regional -- from colonial-era defenses of religious
tolerance to today's multiculturalism. Participants will consider pluralist
thought in relation to competing ideologies, such as nativism, and
compare American pluralisms to formulations arrived at elsewhere,
including Canada.
Transnational Area
**HISD34H3 Topics in American Social and Cultural History**
This fourth-year seminar is funded by the Canada Research Chair in Urban History and is taught by an advanced graduate student in American history. The course, with topics varying from year to year will focus on major themes in American social and cultural history, such as, women's history, labour history, and/or the history of slavery and emancipation.

United States and Latin America Area
Prerequisite: HISB30H3 & HISB31H3
Enrolment Limits: 15
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/history.html for current offerings.

**HISD35H3 The Politics of American Immigration, 1865-present**
A seminar that puts contemporary U.S. debates over immigration in historical context, tracing the roots of such longstanding controversies as those over immigration restriction, naturalization and citizenship, immigrant political activism, bilingual education and “English-only” movements, and assimilation and multiculturalism. Extensive reading and student presentations are required.

United States and Latin America Area
Prerequisite: [HISB30H3 and HISB31H3] or 15.0 credits including SOCB60H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD36H3 From New Deal to New Right: American Politics since 1933**
The most striking development in U.S. politics in the last half century has been the rebirth and rise to dominance of conservatism. This seminar examines the roots of today's conservative ascendancy, tracing the rise and fall of New Deal liberalism and the subsequent rise of the New Right.

United States and Latin America Area
Prerequisite: HISB30H3 & HISB31H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD44H3 Nearby History: The Method and Practice of Local History**
This course introduces students to the methods and practice of the study of local history, in this case the history of Scarborough. This is a service learning course that will require a commitment to working and studying in the classroom and the community as we explore forms of public history.

Canadian Area
Prerequisite: 4.0 credits in History
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD45H3 Canadian Settler Colonialism in Comparative Context**
A seminar on Canadian settler colonialism in the 19th and 20th centuries that draws comparisons from the United States and elsewhere in the British Empire. Students will discuss colonialism and the state, struggles over land and labour, the role of race, gender, and geography in ideologies and practices of colonial rule, residential schools, reconciliation and decolonization.

Prerequisite: HISB40H3 or HISB41H3
Enrolment Limits: 15

**HISD46H3 Selected Topics in Canadian Women's History**
Weekly discussions of assigned readings.
The course covers a broad chronological sweep but also highlights certain themes, including race and gender relations, working women and family economies, sexuality, and women and the courts. We will also explore topics in gender history, including masculinity studies and gay history.

Same as WSTD46H3
Canadian Area
Prerequisite: Any credit in Canadian history
Exclusion: WSTD46H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD47H3 Cold War Canada in Comparative Contexts**
A seminar on Cold War Canada that focuses on the early post-war era and examines Canadian events, developments, experience within a comparative North American context. Weekly readings are organized around a particular theme or themes, including the national insecurity state;reds, spies, and civil liberties; suburbia; and sexuality.

Canadian Area
Prerequisite: HISB41H3 & at least one other B- or C-level credit in History
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD48H3 The World Through Canadian Eyes**
How have Canadians historically experienced, and written about, the world? In what ways have nationalism, imperialism, and ideas about gender and race given meaning to Canadian understandings of the world? Students will consider these questions by exploring the work of Canadian travel writers, missionaries, educators, diplomats, trade officials, and intellectuals.

Canadian Area
Prerequisite: 8.0 credits, including [HISB40H3 or HISB41H3] and 1.0 additional credit at the B- or C-level in History
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

**HISD50H3 Southern Africa: Conquest and Resistance, 1652-1900**
A seminar study of the history of the peoples of southern Africa, beginning with the hunter-gatherers but concentrating on farming and industrializing societies. Students will consider pre-colonial civilizations, colonialism and white settlement, violence, slavery, the frontier, and the mineral revolution. Extensive reading and student presentations are required.

Africa and Asia Area
Prerequisite: 8.0 credits including AFSB50H3/HISB50H3 or AFSB51H3/HISB51H3 or HISCC55H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation
A seminar study of southern African history from 1900 to the present. Students will consider industrialization in South Africa, segregation, apartheid, colonial rule, liberation movements, and the impact of the Cold War. Historiography and questions of race, class and gender will be important. Extensive reading and student presentations are required.
Same as AFSD51H3
Afric and Asia Area
Prerequisite: 8.0 credits including AFSD51H3/HISB51H3 or HISD50H3
Exclusion: AFSD51H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD52H3 East African Societies in Transition
A seminar study of East African peoples from late pre-colonial times to the 1990’s, emphasizing their rapid although uneven adaptation to integration of the region into the wider world. Transitions associated with migrations, commercialization, religious change, colonial conquest, nationalism, economic development and conflict, will be investigated. Student presentations are required.
Afric and Asia Area
Prerequisite: 8.0 credits including AFSB51H3/HISB51H3 or AFSB51H3/HISB51H3 or HISB53H3
Exclusion: GASB58H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
Coolie' labourers formed an imperial diaspora linking South Asia and China to the Caribbean, Africa, the Indian Ocean, South-east Asia, and North America. The long-lasting results of this history are evident in the cultural and ethnic diversity of today’s Caribbean nations and Commonwealth countries such as Great Britain and Canada.
Afric and Asia Area
Same as GASD56H3
Prerequisite: [8.0 credits, of which at least 2.0 credits should be at the B- or C-level in Modern History] or [15.0 credits including SOCB60H3]
Exclusion: GASD56H3
Breadth Requirement: History, Philosophy & Cultural Studies

HISD58H3 Culture, Politics, and Society in Late Imperial China
A study of major cultural trends, political practices, social customs, and economic developments in late imperial China (1400-1911) as well as their relevance to modern and contemporary China. Students will read the most recent literature and write a substantive research paper.
0.5 pre-1800 credit
Afric and Asia area
Same as GASD58H3
Prerequisite: 8.0 credits including at least GASB01H3 or HISB58H3
Exclusion: GASD58H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD59H3 Law and Society in Chinese History
A seminar course on Chinese legal tradition and its role in shaping social, political, economic, and cultural developments, especially in late imperial and modern China. Topics include the foundations of legal culture, regulations on sexuality, women’s property rights, crime fictions, private/state violence, laws of ethnicities, prison reforms and modernization.
0.5 pre-1800 credit
Afric and Asia Area
Same as GASD59H3
Prerequisite: At least 8.0 credits completed, or [HISB58H3 or GASB58H3],
Exclusion: GASD59H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD60H3 Travelling and Travel-Writing from the Middle Ages to the Early Modern Period
The development of travel and travel narratives before 1800, and their relationship to trade and colonization in the Mediterranean and beyond. Topics include: Marco Polo, pilgrimage and crusading, the history of geography and ethnography. Extensive reading, oral presentations, and a final paper based on research in primary documents are required.
0.50 pre-1800 credit
Transnational Area
Prerequisite: HISB62H3 or HISC60H3 or HISD65H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD63H3 The Crusades: I
Modern interpretations of the Crusades will be investigated in the broad context of Western expansion into the Middle East (1099-1204), Spain and southern Europe, and, North-Eastern Europe. Also considered will be the Christian Military Orders, the Mongols and political crusades within Europe itself.
0.50 pre-1800 credit
Medieval Area
Prerequisite: HISB60H3 & HISB61H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD64H3 The Crusades: II
An intensive study of the primary sources of the First through Fourth Crusades, including works by Eastern and Western Christian, Arab and Jewish authors. The crusading period will be considered in terms of Western Christian expansion into the Middle East, Spain and Northern Europe in the 11th through 13th centuries.
0.50 pre-1800 credit
Medieval Area
Prerequisite: HISB60H3 & HISB61H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD70H3 History of Empire and Foods
A transnational history of how the rise of modern, global empires reshaped how the world produced and consumed food. This course, through cooking practicums, offers a hands-on approach to imperial and culinary histories with emphasis on plantation economies, famine, the tropical commodity trade, and the rise of national cuisines.
Transnational Area
Prerequisite: 8.0 credits, including [(HISC14H3) or HISB14H3]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies NOTE: Priority will be given to students enrolled in HIS programs.
Additional students will be admitted as space permits.

HISD71H3 Culinary Ethnography
This research seminar uses Scarborough as a laboratory for examining continuity and change within diasporic foodways. Students will practice ethnographic research and mapping skills to document a family meal, restaurant, market, festival, dish, or other culinary icon. They will also write an essay setting it within an appropriate analytical framework.
Prerequisite: HISD60H3 or [(HISC14H3) or HISB14H3]
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD72H3  History of Beer and Brewing
This research seminar examines the history of beer, including production techniques, gender roles, and drinking cultures, from ancient times to contemporary microbrewing. Students will produce a major paper or digital project on a chosen case study. Class will include a practicum on historical technologies of malting, mashing, and fermenting.
Prerequisite: Any 8.0 credits in AFS, CLA, GAS, HCS, HIS, RLG, and/or WST courses
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

HISD95H3  Presenting the Past
This course introduces students to creative ways of telling/conveying stories about historical moments, events, figures and the social context in which these have occurred. The course will enable students to narrate the past in ways, from film to fiction, accessible to contemporary audiences.
Prerequisite: Any 4.0 credits in HIS courses
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

The following courses may be used to fulfill History Program requirements. (see the Classical Studies section of this Calendar for full descriptions.) Pre-1800 courses and Ancient World Area:

CLAB05H3  History and Culture of the Greek World
CLAB06H3  History and Culture of the Roman World
CLAC05H3  Environment, Society and Economy in Ptolemaic and Roman Egypt
CLAC24H3  Multiculturalism and Cultural Identities in the Greek and Roman Worlds
CLAD05H3  Water Management in the Ancient Mediterranean World

The following courses may be used to fulfill History Program requirements (see the Global Asia Studies section of this Calendar for full description.): Africa and Asia Area

GASA01H3  Introducing Global Asia and its Histories
GASC50H3  Comparative Studies of East Asian Legal Cultures
Humanities and Social Sciences Co-operative

Co-op Contact: askcoop@utsc.utoronto.ca

Co-operative programs are enrichment programs designed to integrate related, practical experience with academic studies. All co-op programs are either Specialist or Major programs and may be taken only as part of a four-year degree. The co-op credits associated with the successful completion of work-term requirements are additional to the 20.0 academic credits required for a degree. For this reason, some co-op programs may take up to five years to complete. No student may be enrolled in more than one co-op program and all co-op students must be registered at U of T Scarborough in order to maintain their co-op status.

Humanities and Social Sciences Co-op allows students to combine their chosen Humanities or Social Sciences program with work experience that draws upon the knowledge and skills acquired during their studies, and is applicable to future employment prospects. For a complete list of available programs please consult the Guide to Programs & Courses Offered in the Calendar. Experiential Education programs in Arts Management and International Development Studies Co-op operate separately from the Humanities and Social Sciences Co-operative program.

Notes:
1. For information on the Experiential Education program in the Specialist program in Arts Management, please see the Arts Management section of this Calendar.
2. For information on the Specialist (Co-operative) programs in International Development Studies, please see the International Development Studies section of this Calendar.

Admissions

Prospective Applicants: For direct admission from secondary school, or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. A POST in a Humanities or Social Sciences Specialist or Major program is required plus a cumulative GPA of at least 2.5. Please refer to the specific program descriptions for further admission requirements.

Program Requirements

Overview
Co-op programs require at least eight four-month terms of full-time study, and the satisfactory completion of two four-month work terms. Work terms are evaluated by program faculty, the Co-op Office, and the employer, and a grade of CR (credit)/NR (no credit) is recorded on the transcript. The credits earned for successful work term completion are in addition to the 20.0 credits required for the degree.

Curriculum
Students in Humanities and Social Sciences Co-op follow the course requirements of their chosen Specialist or Major program in the Humanities or Social Sciences. In addition, they must also successfully complete the Arts & Science Co-op Work Term Preparation Course COPD01H3, also referred to as NWOW (Navigating the World of Work) during their first year in the program. This course includes multiple networking sessions, speaker panels and industry engagement activities as well as workshops and assignments covering resume and cover letter writing, job interviews and professional communications.

(Note: COPD01H3 is a non-credit course taken over and above a full course load in the first year.)

Work Terms
The work terms are an integral part of the co-op curriculum. To be eligible for their first work term, students must be in good standing in their chosen program (with a minimum 2.5 Cumulative Grade Point Average) and have completed at least 9.0 or 10.0 full credits, as specified by the particular program, including a number of program specific credits towards the requirements of their Specialist Program or Major program(s). To be eligible for their second work term, students must have received a satisfactory evaluation of their performance and work term report for their first placement.

For information on fees, work terms, and studying in the program, please see the Co-operative Programs section of this Calendar.
International Development Studies

Faculty List

- A. Ahmed, B.A., M.A. (Toronto), Ph.D. (McGill), Assistant Professor
- S. Bamford, B.S. (Michigan Technological University), Ph.D. (George Washington University), Associate Professor
- A. Berry, B.A. (Western), M.A. (Yale), Ph.D. (Princeton), Professor Emeritus
- A.E. Birn, B.A. (Harvard), M.A. (University of Canterbury), Sc.D. (Johns Hopkins), Professor
- L. Bisaillon, B.A. (Bishop's), M.P.I. (McGill), Ph.D. (Ottawa), Assistant Professor
- M.F. Bunce, B.A. (Sheffield), Ph.D. (Sheffield), Associate Professor Emeritus
- L. Chan, B.A., M.A. (Toronto), Associate Professor, Teaching Stream
- B. Dahl, B.A. (U.C. San Diego), M.A., Ph.D. (Chicago), Assistant Professor
- G. Frazer, M.A. (Toronto), Ph.D. (Yale), Assistant Professor
- D. Fu, B.A. (Minnesota), M.Phil, Ph.D. (Oxford), Assistant Professor
- M. Hoffmann, B.S. (Michigan Technological University), Ph.D. (George Washington University), Associate Professor
- P.c. Hsiung, B.A. (National Chun-sing), M.A. (Chinese Cultural), M.A., Ph.D. (UCLA), Associate Professor
- M. Hunter, B.A. (Sussex), M.A. (Univ. of Natal), Ph.D. (Univ California, Berkeley), Associate Professor
- E.C. Relph, B.A., M.Sc. (Guelph), Ph.D. (Toronto), Assistant Professor
- R. Isakson, Ph.D. Assistant Professor
- M. Kale, M.A., Ph.D (Laval and Nice), Assistant Professor
- T. Kepe, B. Agric. (Fort Hare), M.Sc. (Guelph), Ph.D. (Univ. Western Cape), Associate Professor
- P. Kingston, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), Associate Professor
- N. Kortenaar, M.A., Ph.D. (Toronto), Professor
- C. Krupa, B.A., M.A. (Toronto), Ph.D. (London), D.Phil. (Oxford), Associate Professor
- K. MacDonald, B.A., M.A., Ph.D. (Waterloo), Associate Professor
- A. Martin, B.A. (Guelph), M.F.C., Ph.D. (Toronto), Assistant Professor
- S. Mollett, B.A., M.E.S. (York), Ph.D. (Toronto), Assistant Professor
- L. Mortensen, B.A. (Cornell), M.A., Ph.D. (Indiana), Assistant Professor
- K. Moskowitz, B.A. (Grinnell), M.A. (Emory), Ph.D. (Emory, expected 2014), Assistant Professor
- C. Norloff, B.A., M.A. (Lund), Ph.D. (Geneva), Associate Professor
- A.G. Price, B.Sc. (Wales), M.Sc., Ph.D. (McGill), Associate Professor Emeritus
- E.C. Relph, B.A., M.Phil. (London), Ph.D. (Toronto), Professor Emeritus
- S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
- R. Salem, M.A. (Oxford), Ph.D. (Princeton), Assistant Professor
- J. Sharma, M.A. (Hindu), M.Phil. (Delhi), Ph.D. (Cantab), Assistant Professor
- S. Siccha, MHSc, Msc, PhD (Toronto), Assistant Professor, Teaching Stream
- J. Teichman, B.A., M.A., Ph.D. (Toronto), Associate Professor Emeritus
- B. von Lieres, B.A., M.A. (Witwatersrand, South Africa), D.Phil (Essex), Assistant Professor

Associate Director: L. Chan

Program Advisor: Benjamin Pottruff Email: ccds-advisor@utsc.utoronto.ca

Our programs provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines, cultures, and, in the case of the specialist co-op program, an overseas work experience in the field of international development. The IDS programs are challenging and intended for bright and self motivated students who are interested in both excelling academically and actively engaging themselves in the pursuit of social justice around such issues as poverty, inequality, and oppression. The students in the IDS programs take initiatives, seek empowerment, are driven to solve social and environmental problems, understand the importance of teamwork and coordination, and are responsible and accountable. They have diverse interests that span the social sciences, humanities, and environmental science, all of which is underpinned by a strong sense of social responsibility.

The IDS programs provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines, cultures, and, in the case of the specialist co-op program, an overseas work experience in the field of international development. The specific academic objectives of our IDS programs are to:

1. Introduce students to the broad and inter-connected range of issues and disciplinary approaches within the field of critical development studies.
2. Provide students with a critical understanding of development theories - their origins and purposes for addressing problems of power, inequality and oppression.
3. Stress the crucial importance of context and power - historical, social-cultural, economic, and political - when critically analyzing development theory and development practice.
4. Promote the development of strong analytical, writing, and professional skills and, where possible, experiential learning opportunities in the field of critical development studies.
5. Promote the development of a vibrant intellectual community - that includes students, faculty, administrators, alumni, and development partners -- that is committed to active involvement in the critical debates within the field of development studies and to critical engagement in development practice.
As a way of enhancing the interdisciplinary nature of the IDS programs, students are also encouraged to consider complementing their particular program in IDS with a parallel program in a related discipline. For example, those doing a Major in IDS might consider a parallel Major or Minor in any one of anthropology, environmental sciences, environmental studies, economics, geography, health studies, history, political science, public policy, sociology or women's and gender studies. While not required for graduation, Specialist students (co-op or non-co-op) are also encouraged to consider fulfilling the requirements for a Major or Minor program in a related discipline along side their Specialist IDS program. For details about how these joint programs can be worked out, please contact the Program Advisor.

Guidelines for 1st year course selection
Students intending to complete any currently offered IDS program should include the following required courses in their first year selection:

IDS Specialist (BSc) and Co-Operative Specialist (BSc) should enroll in IDSA01H3, EESA01H3, BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, [MGEA01H3 or MGEA02H3], [MGEA05H3 or MGEA06H3].

IDS Specialist (BA) and Co-Operative Specialist (BA) should enroll in IDSA01H3, EESA01H3, [MGEA01H3 or MGEA02H3], [MGEA05H3 or MGEA06H3].

IDS Major (BA) should enroll in IDSA01H3.

International Development Studies Programs

SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)

Program Requirements:
This program requires 14.0 credits of which at least 4.0 must be at the C-or D-level including at least 1.0 at the D-level.

1. Introduction to International Development Studies (2.0 credits):
IDSA01H3 Introduction to International Development Studies
[MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach]
[MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach]
EESA01H3 Introduction to Environmental Science

2. Core courses in International Development (3.0 credits):
IDSB01H3 Political Economy of International Development
IDSB02H3 Development and Environment
IDSB04H3 Introduction to International/Global Health
IDSB06H3 Equity, Ethics and Justice in International Development
POLB90H3 Comparative Development in International Perspective
POLB91H3 Comparative Development in Political Perspective

3. Methods for International Development Studies (1.5 credits):
IDSC04H3 Project Management I
0.5 credit in Quantitative/statistical methods from the following:
ANTC35H3 Quantitative Methods in Anthropology
MGEB11H3 Quantitative Methods in Economics I
GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
GGRB30H3 Fundamentals of GIS I
HLTB15H3 Introduction to Health Research Methodology
STAB22H3 Statistics I
0.5 FCE in Qualitative Methods from the following:
ANTB19H3 Ethnography and the Comparative Study of Human Societies
GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
HLTC04H3 Critical Qualitative Health Research Methods
POLC78H3 Political Analysis I

4. Specialized Core Courses (3.0 credits):
BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
MATA30H3 Calculus I for Physical Sciences
[PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB]

5. 1.0 credits from:
BIOB50H3 Ecology
International Development Studies

CHMB55H3 Environmental Chemistry
EESB02H3 Principles of Geomorphology
EESB03H3 Principles of Climatology
EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science
EESB15H3 Earth History
EESB16H3 Feeding Humans- The Cost to the Planet
EESB17H3 Hydro Politics and Transboundary Water Resource Management
GGRC22H3 Political Ecology Theory and Applications
GGRC26H3 Geographies of Environmental Governance
GGRC44H3 Environmental Conservation and Sustainable Development
IDSC02H3 Environmental Science and Evidence-Based Policy
PSCB57H3 Introduction to Scientific Computing

6. 3.0 credits from C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:

- EESC04H3 Biodiversity and Biogeography
- EESC07H3 Groundwater
- EESC13H3 Environmental Impact Assessment and Auditing
- EESC20H3 Geochemistry
- (EESC21H3) Urban Environmental Problems of the Greater Toronto Area
- EESD02H3 Contaminant Hydrogeology
- EESD06H3 Climate Change Impact Assessment
- EESD11H3 Process Hydrology
- EESD15H3 Fundamentals of Site Remediation

7. Research in International Development Requirement (0.5 credit):
IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy

SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)

Co-op Contact: askcoop@utsc.utoronto.ca

The Co-operative Program in International Development Studies (B.Sc.) at the University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.Sc. with a Specialist certification in International Development Studies.

Program Admission
Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants’ academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this Calendar.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar’s Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.

Work Placement
This Program requires twenty courses (four years) of study and one work term of eight to twelve months in duration. The work term will normally begin between May and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student’s disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.

Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 full credits including 12.0 IDS credits. These 12 must include IDSC01H3, IDSC04H3 plus 9.5 other credits from Requirements 1 through 6. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this Calendar.

Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.
IDS Co-op Tutorial and Pre-Departure Orientation

In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

First Year:

During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to the Third Year course.

Third Year:

Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year - usually third year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the IDSD01Y3 thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

Program Requirements:

This program requires 16.0 credits of which at least 4.0 must be at the C-or D- level including at least 1.0 at the D-level.

1. Introduction to International Development Studies (2.0 credits)
   - IDS01H3 Introduction to International Development Studies
   - [MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach]
   - [MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach]
   - EESA01H3 Introduction to Environmental Science

2. Core courses in International Development (3.0 credits)
   - IDSB01H3 Political Economy of International Development
   - IDSB02H3 Development and Environment
   - IDSB04H3 Introduction to International/Global Health
   - IDSB06H3 Equity, Ethics and Justice in International Development
   - POLB90H3 Comparative Development in International Perspective
   - POLB91H3 Comparative Development in Political Perspective

3. Methods for International Development Studies (1.5 credits)
   - IDSC04H3 Project Management I
   - 0.5 credit in Quantitative/statistical methods from the following:
     - ANTC35H3 Quantitative Methods in Anthropology
     - MGEB11H3 Quantitative Methods in Economics I
     - GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
     - GGRB30H3 Fundamentals of GIS I
     - HLTB15H3 Introduction to Health Research Methodology
     - STAB22H3 Statistics I
   - 0.5 FCE in Qualitative Methods from the following:
     - ANTB19H3 Ethnography and the Comparative Study of Human Societies
     - GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
     - HLTC04H3 Critical Qualitative Health Research Methods
     - POLC78H3 Political Analysis I

4. Specialized Courses: Core (3.0 credits)
   - BIOA01H3 Life on Earth: Unifying Principles
   - BIOA02H3 Life on Earth: Form, Function and Interactions
   - CHMA10H3 Introductory Chemistry I: Structure and Bonding
   - CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
   - MATA30H3 Calculus I for Physical Sciences
   - [PHYA10H3 or PHYA11H3 Introduction to Physics IA or IB]

5. 1.0 credit from:
   - BIOB50H3 Ecology
   - CHMB55H3 Environmental Chemistry
   - EESB02H3 Principles of Geomorphology
   - EESB03H3 Principles of Climatology
International Development Studies

EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science
EESB15H3 Earth History
EESB16H3 Feeding Humans- The Cost to the Planet
EESB17H3 Hydro Politics and Transboundary Water Resource Management
GGRC22H3 Political Ecology Theory and Applications
GGRC26H3 Geographies of Environmental Governance
GGRC44H3 Environmental Conservation and Sustainable Development
IDSC02H3 Environmental Science and Evidence-Based Policy
PSCB57H3 Introduction to Scientific Computing

6. **3.0 credits from C- and D-level EES courses, with at least 0.5 credits at the D-level, from the following:**
   EESC04H3 Biodiversity and Biogeography
   EESC07H3 Groundwater
   EESC13H3 Environmental Impact Assessment and Auditing
   EESC20H3 Geochemistry
   EESC21H3 Urban Environmental Problems of the Greater Toronto Area
   EESD02H3 Contaminant Hydrogeology
   EESD06H3 Climate Change Impact Assessment
   EESD11H3 Process Hydrology
   EESD15H3 Fundamentals of Site Remediation

7. **Co-operative, Language and Thesis Requirements (2.5 credits):**
   1.0 full credits in a second language
   IDSC01H3 Research Design for Development Fieldwork* (*must be taken prior to co-op placement)
   IDSD01Y3 Post-placement Seminar and Thesis

SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

Program Requirements
This program requires 13.0 full credits of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.

1. **Introduction to International Development Studies (2.0 full credits as follows)**
   IDSA01H3 Introduction to International Development Studies
   [MGEA01H3 Introduction to Microeconomics or MGEA02H3 Introduction to Microeconomics: A Mathematical Approach]
   [MGEA05H3 Introduction to Macroeconomics or MGEA06H3 Introduction to Macroeconomics: A Mathematical Approach]
   EESA01H3 Introduction to Environmental Science

2. **Core courses in International Development (3.0 full credits as follows)**
   IDS01H3 Political Economy of International Development
   IDS02H3 Development and Environment
   IDS04H3 Introduction to International/Global Health
   IDS06H3 Equity, Ethics and Justice in International Development
   POLB90H3 Comparative Development in International Perspective
   POLB91H3 Comparative Development in Political Perspective

3. **Methods for International Development Studies (1.5 full credits as follows)**
   IDSC04H3 Project Management I
   0.5 credit in Quantitative/statistical methods from the following:
   ANTC05H3 Quantitative Methods in Anthropology
   MGEB11H3 Quantitative Methods in Economics I
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGRB30H3 Fundamentals of GIS I
   HLTD16H3 Introduction to Health Research Methodology
   STAB23H3 Introduction to Statistics for the Social Sciences
   0.5 FCE in Qualitative methods from the following:
   ANTC19H3 Ethnography and the Comparative Study of Human Societies
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   HLT04H3 Critical Qualitative Health Research Methods
   POLC78H3 Political Analysis I
4. **Research in International Development Requirement (0.5 credit):**
   IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy

5. **Specialized Courses: Approaches to International Development (6.0 full credits)**
   A minimum of 2.0 full credits must be chosen from two different clusters below for a total of 4.0 full credits. The other 2.0 full credits may be selected from any of the courses listed below, and IDSA02H3/AFSA03H3, IDSC07H3, IDSC10H3, IDSD10H3, IDSD14H3 and IDSD15H3 may also be counted towards the completion of this requirement.

### Media and Development
- ANTC53H3 Anthropology of Media and Publics
- GASC40H3/MDSC40H3 Chinese Media and Politics
- GASC41H3/MDSC41H3 Media and Popular Culture in East Asia
- IDSB10H3 Knowledge and Communication for Development
- IDSC08H3 Media and Development
- MDSB05H3/GASB05H3 Media and Globalization
- MDSB61H3 Mapping New Media
- SOCC44H3 Media and Society
- VPHB50H3 Africa Through the Photographic Lens

### Culture and Society
- ANTB05H3/AFSB05H3 Culture and Society in Africa
- ANTB20H3 Culture, Politics and Globalization
- ANTB64H3 The Anthropology of Food
- ANTC10H3 Anthropological Perspectives on Development
- ANTC34H3 The Anthropology of Transnationalism
- ANTC66H3 Anthropology of Tourism
- GGRD14H3 Social Justice and the City
- HISB51H3/AFSB51H3 Twentieth Century Africa
- HISB57H3/GASB57H3 Sub-Continental Histories: South Asia in the World
- HISC29H3 Global Commodities: Nature, Culture, History
- HISC55H3 War and Society in Modern Africa
- IDSD06H3 Feminist and Postcolonial Perspectives in Development Studies
- SOCC25H3 Ethnicity, Race and Migration
- SOCC29H3 Special Topics in Sociology of Family
- SOCC34H3 Migrations & Transnationalisms
- SOCC58H3 Global Transformations: Politics, Economy & Society

### Economics of Development
- ANTC19H3 Producing People and Things: Economics and Social Life
- MGEB32H3 Economic Aspects of Public Policy
- MGEB60H3 Comparative Economic Systems
- MGEC21H3 Classics in the History of Economic Thought
- MGEC61H3 International Economics: Finance
- MGEC62H3 International Economics: Trade Theory
- MGEC81H3 Economic Development
- MGEC82H3 Development Policy
- MGED63H3 Financial Crises: Causes, Consequences and Policy Implications
- IDSC12H3 Economics of Small Enterprise and Micro-Credit
- IDSC14H3 The Political Economy of Food
- GGRC48H3 Geographies of Urban Poverty
- POLC98H3 International Political Economy of Finance

### Environment and Land Use
- ANTB01H3 Political Ecology
- EESB16H3 Feeding Humans - the Cost to the Planet
- EESB17H3 Hydro Politics and Transboundary Water Resources Management
- GGRB21H3 Environments and Environmentalisms
- GGRC10H3 Urbanization and Development
- GGRC22H3 Political Ecology Theory and Application
- GGRC25H3 Land Reform and Development
- GGRC44H3 Environmental Conservation and Sustainable Development
- GGRC49H3 Land, Development, and Stuggle in Latin America
IDSC02H3 Environmental Science and Evidence-Based Policy
IDSD07H3/AFSD07H3 Extractive Industries in Africa

**Gender, Health and Development**
ANTC14H3 Feminism and Anthropology
ANTC15H3 Genders and Sexualities
ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective
GGRB28H3 Geographies of Disease
GGRD10H3 Health and Sexuality
HLTC02H3 Women and Health: Past and Present
IDSC11H3 Issues in Global and International Health
POLC94H3 Globalization, Gender and Development
WSTC10H3 Women and Development
WSTC11H3 Applied Study in Women and Development

**Politics and Policy**
IDSC11H3 Issues in Global and International Health
IDSC17H3 Development, Citizen Action and Social Change in the Global South
IDSC18H3 New Paradigms in Development: The Role of Emerging Powers
IDSD19H3 The Role of Researcher-Practitioner Engagement in Development
POLB80H3 Introduction to International Relations I
POLB81H3 Introduction to International Relations II
POLC09H3 International Security: Conflict, Crisis and War
POLC16H3 Chinese Politics
POLC37H3 Global Justice
POLC80H3 International Relations of Africa
POLC87H3 International Cooperation and Institutions
POLC88H3 The New International Agenda
POLC90H3 Development Studies: Political and Historical Perspectives
POLC91H3 Latin America: Dictatorship and Democracy
POLC96H3 State Formation and Authoritarianism in the Middle East
POLC97H3 Protest Politics in the Middle East
POLC99H3 Latin America: Politics of the Dispossessed
POLD09H3 International Relations of Ethnic Conflict
POLD87H3 Rational Choice and International Cooperation
POLD90H3 Public Policy and Human Development in the Global South
POLD92H3 Survival and Demise of Dictatorships
POLD94H3 Selected Topics on Developing Areas

**SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)**

Co-op Contact: askcoo@utsc.utoronto.ca

The Co-operative Program in International Development Studies (B.A.) at University of Toronto Scarborough, is a five year undergraduate Program which aims to provide students with a critical understanding of international development issues through exposure to a variety of academic disciplines and to another culture. The Program combines interdisciplinary academic study in the social and environmental sciences and humanities with a practical work experience in a developing country. IDS students graduate with an Honours B.A. with a Specialist certification in International Development Studies.

**Program Admission**

Enrolment in the Program is limited. Interviews are normally held from January until May for students who pass the initial screening. Admissions are granted on the basis of the applicants' academic performance, background in relevant subjects, language skills, extra-curricular involvement, experience or interest in international development studies and work. For information on fees and status in the Program, please see the Co-operative Programs section of this Calendar.

**Prospective Applicants:** For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

**Current U of T Scarborough students:** Application procedures can be found at the Registrar’s Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. An interview is required.

**Work Placement**

This program requires the completion of 15.0 FCEs and one work term of eight to twelve months in duration. The work term will normally begin between April and September of the third year. The IDS work term is an integral part of the co-op curriculum and is designed to provide students with practical
hands on experience in a developing country. The majority of work terms are with Canadian NGOs, research institutes or private sector consulting firms. The location of placements will vary according to each student's disciplinary and regional preferences and abilities, the availability of positions, and the practicability and safety of the area. Placement employers are asked to cover the living allowance of the student. Those students who choose to carry out their placement with no funding will be asked to finance the living allowance themselves.

Students are required to submit progress reports every 2 months and begin work on a major research project. To be eligible for placement, students must have completed 14.5 credits, including IDSC01H3, IDSC04H3 and a further 6.0 credits from Requirements 1 through 4 of the Specialist in International Development Studies (BA) program. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6 of the Specialist in International Development Studies (BA) program, as well the required 1.0 credit in a second language, when completing the remainder of the 14.5 credits that are required prior to placement. For information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section of this Calendar.

Students who successfully complete all requirements associated with a work term are awarded credit, these credits being additional to the 20.0 normally required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer, and a grade of CR (credit)/NCR (no credit) is recorded on the transcript.

**IDS Co-op Tutorial and Pre-Departure Orientation**

In addition to the academic course requirements for the IDS Co-op program, students are required to complete two additional non-credit courses. These courses are taken in the first and third year of the program with the aim of providing students with the skills and knowledge they need to successfully navigate the placement experience. For students who gain entry in second year, they will complete the first year course in their second year. Both of these courses are non-credit courses taken over-and-above a full course load in the first year.

**First Year:**
During the first year of study, students must successfully complete a non-credit IDS Co-op Placement Course (also referred to as Passport to Placement). This course will include resume, covering letters, and interview workshops, along with networking sessions, speaker panels, and work-term expectations. This course must be completed prior to beginning the Third Year course.

**Third Year:**
Following the successful completion of the Year 1 course, students are required to participate in a second non-credit Co-op course commencing at the end of the year in which they complete 10.0 credits, and continuing through the following year (the pre-placement year). This course will include presentations, group exercises and individual assignments designed to prepare students for the placement experience. There are mandatory sessions on cross-cultural understanding, health and safety issues on placement, researching for the IDSD01Y3 thesis, and other key topics. A weekend retreat with the fifth years (who have returned from placement) provides the opportunity for sharing of first-hand experience. Students must successfully complete this course in order to be eligible for placement.

**Program Requirements**
This program requires 15.0 full credits, of which at least 4.0 must be at the C- or D-level including at least 1.0 at the D-level.

Students must complete requirements 1-5 of the requirements for the Specialist (Non-co-op B.A.) Program in International Development Studies, except for IDSD02H3, plus the following:
- 1.0 full credit in a second language
- IDSC01H3 Research Design for Development Fieldwork (must be taken prior to co-op placement)
- IDSD01Y3 Post-placement Seminar and Thesis

**MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)**

Enrolment in Major Program in International Development Studies (BSc) has been suspended indefinitely. Students who first enrolled at UTSC prior to the 2010 Summer Session should refer to the 2009/2010 UTSC Calendar.

**MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)**

**Program Requirements**
This program requires 8.0 full credits of which at least 2.0 must be at the C- or D-level.

1. **Introduction to International Development Studies (0.5 credits)**
   - IDSA01H3 Introduction to International Development Studies

2. **Core courses in International Development (1.5 credits)**
   - 1.5 full credits from the following:
     - IDSB01H3 Political Economy of International Development
     - IDSB02H3 Development and Environment
     - IDSB04H3 Introduction to International/Global Health
     - IDSB06H3 Equity, Ethics and Justice in International Development
     - POLB90H3 Comparative Development in International Perspective

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3. Methods for International Development Studies (1.5 credits)
   IDSC04H3 Project Management I
   0.5 credits in quantitative/statistical methods from the following:
   ANTC35H3 Quantitative Methods in Anthropology
   MGEB11H3 Quantitative Methods in Economics I
   GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
   GGBR30H3 Fundamentals of GIS I
   HLTB15H3 Introduction to Health Research Methodology
   STAB23H3 Introduction to Statistics for the Social Sciences
   0.5 credits in qualitative methods from the following:
   ANT19H3 Ethnography and the Comparative Study of Human Societies
   HLTC04H3 Critical Qualitative Health Research Methods
   GGRC31H3 Qualitative Geographical Methods: Place and Ethnography
   POLC78H3 Political Analysis I

4. Specialized Courses (4.5 credits)
   4.5 credits from the courses listed in Requirement 5 of the B.A. version of the Specialist program in IDS with at least 1.0 credit from each of TWO of the clusters. POLB91H3 may be counted toward this requirement.

MINOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

The Minor in International Development Studies (IDS) will provide students with an introduction to a critical understanding of international development issues, and the academic building blocks for greater awareness of the world around them, as well as an entry point into greater academic study of international development itself. 2.0 credits are in ‘core’ courses at the first and second year level, the other 2.0 credits will be electives from cognate fields, allowing students to take courses that might have synergies with their Major or Specialist programs.

Program Requirements
This program requires the completion of 4.0 credits, of which at least 1.0 credit must be at the C- or D-level.

1. Introduction to International Development Studies (0.5 credit)
   IDSA01H3 Introduction to International Development Studies

2. Core courses in International Development (1.5 credits)
   Choose from the following:
   IDSB01H3 Political Economy of International Development*
   IDSB02H3 Development and Environment
   IDSB04H3 Introduction to International/Global Health
   IDSB06H3 Equity, Ethics and Justice in International Development
   POLB90H3 Comparative Development in International Perspective
   *Students interested in IDSB01H3 are cautioned that it contains prerequisites not included in this offering.

3. Specialized Courses (2.0 credits)
   2.0 credits from the courses listed in Requirement 5 of the Specialist BA in International Development Studies, of which at least 1.0 credit must be at the C- or D-level. POLB91H3 may be counted toward this requirement.

International Development Studies Courses

IDSA01H3 Introduction to International Development Studies
   History, theory and practice of international development, and current approaches and debates in international development studies. The course explores the evolution of policy and practice in international development and the academic discourses that surround it. Lectures by various faculty and guests will explore the multi-disciplinary nature of international development studies. This course is a prerequisite for all IDS B-level courses.
   Breadth Requirement: Social & Behavioural Sciences

IDSA02H3 Experiencing Development in Africa
   This experiential learning course allows students to experience first hand the realities, challenges, and opportunities of working with development organizations in Africa. The goal is to allow students to actively engage in research, decision-making, problem solving, partnership building, and fundraising, processes that are the key elements of development work.
   Same as AFSA03H3
   Prerequisite: AFSA01H3 or IDSA01H3
   Exclusion: AFSA03H3
   Enrolment Limits: 25
   Breadth Requirement: Social & Behavioural Sciences
IDSB01H3 Political Economy of International Development
Introduces students to major development problems, focusing on international economic and political economy factors. Examines trade, aid, international institutions such as the World Bank, the IMF and the WTO. Examines both conventional economic perspectives as well as critiques of these perspectives. This course can be counted for credit in ECM Programs.
Prerequisite: [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] or [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] and IDSA01H3
Exclusion: ECO230Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

IDSB02H3 Development and Environment
The environmental consequences of development activities with emphasis on tropical countries. Environmental change in urban, rainforest, semi-arid, wetland, and mountainous systems. The influences of development on the global environment; species extinction, loss of productive land, reduced access to resources, declining water quality and quantity, and climate change.
Prerequisite: IDSA01H3 or EESA01H3
Breadth Requirement: Natural Sciences

IDSB04H3 Introduction to International/Global Health
This course offers an introduction to the institutional, social, economic, epidemiological, ideological, and political forces in the field of international/global health. While considerable reference will be made to "high-income" countries, the major emphasis will be on the health conditions of "low-income" countries -- as well as the interaction of these conditions with the international aid system. After setting the historical and political economy context, the course will explore key topics and themes in international/global health including: international health agencies and activities; data on health; epidemiology and the global distribution of health and disease; the societal determinants of health and social inequalities in health; health economics and the organization of health care systems in comparative context; globalization, trade, work, and health; health and the environment; the ingredients of healthy societies across the world; and Canada's/your/civil society's role in global health policy-making.
Prerequisite: 5.0 full credits including IDSA01H3
Breadth Requirement: Social & Behavioural Sciences

IDSB06H3 Equity, Ethics and Justice in International Development
What constitutes equitable, ethical as well as socially and environmentally just processes and outcomes of development? This course explores these questions with particular emphasis on their philosophical and ideological foundations and on the challenges of negotiating global differences in cultural, political and environmental values in international development.
Prerequisite: IDSA01H3
Breadth Requirement: History, Philosophy & Cultural Studies

IDSB10H3 Knowledge and Communication for Development
Examines in-depth the roles of information and communication technology (ICT) in knowledge production and their impact on development. Do new forms of social media make communication more effective, equitable, or productive in the globalized world? How has network media changed governance, advocacy, and information flow and knowledge exchange and what do these mean for development?
Prerequisite: IDSA01H3
Exclusion: (ISTB01H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

NOTE: Effective Summer 2013 this course will not be delivered online; instead, it will be delivered as an in-class seminar.

IDSC01H3 Research Design for Development Fieldwork
Examines research design and methods appropriate to development fieldwork. Provides "hands on" advice (practical, personal and ethical) to those preparing to enter "the field"; or pursuing development work as a career. Students will prepare a research proposal as their main course assignment.
Prerequisite: IDSA01H3 & 9.0 full credits in total including at least 6.0 credits satisfying Requirements 1 through 4 of the Specialist Co-op program
Enrolment Limits: 20. Limited to students enrolled in the Specialist Coop Program in IDS. Students in other IDS programs may be admitted with permission of instructor subject to the availability of spaces.
Breadth Requirement: Social & Behavioural Sciences

IDSC02H3 Environmental Science and Evidence-Based Policy
The role science plays in informing environmental policy is sometimes unclear. Students in this interdisciplinary class will examine key elements associated with generating scientific environmental knowledge, and learn how this understanding can be used to inform and critique environmental policy. Discussions of contemporary domestic and international examples are used to highlight concepts and applications.
Prerequisite: 8.0 credits including EESA01H3
Recommended Preparation: EESA01H3
Breadth Requirement: Natural Sciences

IDSC04H3 Project Management I
Studies the phases of the project management cycle with emphasis on situational analysis and identification of needs, project implementation, project monitoring and evaluation. Examines basic organizational development, the role of Canadian non-governmental organizations engaged in the delivery of development assistance as well as with CIDA's policies and practices.
Prerequisite: IDSA01H3 and [1.0 credit at the B-level in IDS courses]
Enrolment Limits: Restricted to students in the IDS Specialist and Major programs.
Breadth Requirement: Social & Behavioural Sciences

IDSC06H3 Directed Reading on Canadian Institutions and International Development
This Directed Readings course is designed for students who already have an ongoing working relationship with a Canadian Development institution (both non-government organizations and private agencies). The course will run parallel to the work experience. Students interested in this course must contact and obtain permission from the CCDS Associate Director prior to the beginning of term.
Prerequisite: IDSA01H3 and [1.0 credit at the B-level in IDS courses]
Recommended Preparation: IDSC04H3

IDSC07H3 Project Management II
A case study approach building on Project Management I. Examines: the art of effective communication and negotiation, visioning, participatory and rapid rural appraisal; survey design and implementation; advanced financial management and budgeting; basic bookkeeping and spreadsheet design; results based management; environmental impact assessments; cross-cultural effectiveness; and gender and development.
Prerequisite: IDSA01H3 and IDSC04H3
Enrolment Limits: Limited to students in IDS Specialist and Major programs. Other students may be admitted with permission of instructor.
International Development Studies

IDSC08H3 Media and Development
Critical perspectives on the effects of traditional and 'new' media on development policy and practice. The course examines the increasingly significant role the media plays in the development process, the ways in which media-generated images of development and developing countries affect development policy and the potential of 'new' media for those who are marginalized from the development process.
Prerequisite: IDSA01H3 and IDSB10H3
Enrolment Limits: 35
Breadth Requirement: Social & Behavioural Sciences

IDSC10H3 Topics in International Development Studies
Contents to be determined by instructor.
Prerequisite: IDSA01H3 & IDSB01H3 & IDSB02H3

IDSC11H3 Issues in Global and International Health
Key global and international health issues are explored in-depth in three learning phases. We begin with a reading and discussion seminar on international/global health policy and politics. (Exact topic changes each year based on student interest and developments in the field). Next, students develop group projects designed to raise awareness around particular global and international health problems, culminating in UTSC International Health Week in the Meeting Place. The third phase --which unfolds throughout the course-- involves individual research projects and class presentations.
Prerequisite: IDSA01H3 & IDSB04H3
Enrolment Limits: 35
Breadth Requirement: Social & Behavioural Sciences

IDSC12H3 Economics of Small Enterprise and Microcredit
Considers the role of micro- and small/medium enterprise in the development process, as compared to the larger firms. Identifies the role of smaller enterprises in employment creation and a more equitable distribution of income. Examines policies which can contribute to these outcomes, including micro-credit. This course can be counted for credit in ECM Programs.
Prerequisite: IDSA01H3 and IDSB01H3
Exclusion: (IDSB05H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

IDSC14H3 The Political Economy of Food
Examines how institutions and power relations shape the production and distribution of food, particularly in the global South. The course evaluates competing theories of hunger and malnutrition. It also explores the historical evolution of contemporary food provisioning and evaluates the viability and development potential of alternative food practices.
Prerequisite: IDSB01H3
Enrolment Limits: 35
Breadth Requirement: Social & Behavioural Sciences

IDSC17H3 Development, Citizen Action and Social Change in the Global South
Explores the question of citizenship through theories of citizen participation and action in dialogue with a wide range of recent empirical case studies from the global south. Going beyond formal rights and status, the course looks at deeper forms of political inclusion and direct participation in decision-making on political and policy issues.
Prerequisite: IDSA01H3 and [1.0 credit at the B-level in IDS courses]
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

IDSC18H3 New Paradigms in Development: The Role of Emerging Powers
This course examines the growing role of the emerging powers - the BRICS countries grouping of Brazil, Russia, India, China and South Africa - in international development. The course examines recent development initiatives by these actors in Africa, Latin America and Asia. It also explores the question of whether BRICS-led development programs and practices challenge the top-down, expert led stances of past development interventions --from colonialism to the western aid era.
Prerequisite: IDSA01H3 and [1.0 credit at the B-level in IDS courses]
Breadth Requirement: Social & Behavioural Sciences

IDSD01Y3 Post-placement Seminar and Thesis
Normal enrolment in this course will be made up of IDS students who have completed their work placement. Each student will give at least one seminar dealing with their research project and/or placement. The research paper will be the major written requirement for the course, to be submitted no later than mid-March. The course will also include seminars by practicing professionals on a variety of development topics.
Prerequisite: IDSA01H3 & students must have completed the first four years of the IDS Specialist Co-op Program or its equivalent and have completed their placement. Also, permission of the instructor is required.

IDSD02H3 Advanced Seminar in Critical Development Studies: Theory and Policy
An advanced seminar in critical development theory and policy, with an emphasis on perspectives and theories from the global South. Students will write a series of theoretical reflections on contemporary policy issues, that contributes to a final critical development theory paper. Students will present the results of their thinking in a conference setting.
Prerequisite: 14.0 credits including IDSC04H3
Enrolment Limits: 25; Restricted to students in the non co-op IDS Specialist programs. If space is available, students from the IDS Major program may gain admission with the permission of the instructor.
Breadth Requirement: Social & Behavioural Sciences

IDSD06H3 Feminist and Postcolonial Perspectives in Development Studies
This interdisciplinary course traces the advance of feminist and postcolonial thinking in development studies. The course serves as a capstone experience for IDS students and social science majors looking to fully engage with feminist and postcolonial theories of development. This course combines short lectures with student-led discussions and critical analyses of development thought and practice.
Prerequisite: 12.0 credits including IDSA01H3
Recommended Preparation: IDSB06H3
Enrolment Limits: 25
Breadth Requirement: History, Philosophy & Cultural Studies

IDSD07H3 Extractive Industries in Africa
This course examines resource extraction in African history. We examine global trade networks in precolonial Africa, and the transformations brought by colonial extractive economies. Case studies, from diamonds to uranium, demonstrate how the resource curse has affected states and economies, especially in the postcolonial period.
Same as AFSD07H3
Prerequisite: 8.0 credits including [AFSA01H3 or IDSA01H3] and [AFSA03H3/IDSA02H3] and [1.0 credit at the B-level in AFS or IDS courses]
Exclusion: AFSD07H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
IDSD10H3  Topics in International Development Studies
Contents to be determined by Instructor.
Prerequisite: 12.0 credits, including IDSA01H3
Enrolment Limits: 25

IDSD14H3  Directed Reading
The goal of the course is for students to examine in a more extensive fashion the academic literature on a particular topic in International Development Studies not covered by existing course offering. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the CCDS Associate Director before registering for this course.
Prerequisite: 12.0 credits, including IDSA01H3

IDSD15H3  Directed Research
The goal of the course is for students to prepare and write a senior undergraduate research paper in International Development Studies. For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students in their final year of study at UTSC. Students must obtain consent from the CCDS Associate Director before registering for this course.
Prerequisite: 12.0 credits including IDSA01H3 and permission of the instructor

IDSD19H3  The Role of Researcher-Practitioner Engagement in Development
This course focuses on recent theories and approaches to researcher-practitioner engagement in development. Using case studies, interviews, and extensive literature review, students will explore whether such engagements offer opportunities for effective social change and improved theory.
Prerequisite: 12.0 credits, including IDSA01H3
Recommended Preparation: IDSC04H3
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
International Studies

Faculty List

- L. Chan, B.A., M.A. (Toronto), Associate Professor, Teaching Stream
- E.W. Dowler, A.M. (Harvard), Ph.D. (London School of Economics), Professor
- P. Kingston, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), Associate Professor
- K. Liddle, B.A. (Oberlin), M.A. (Auburn), Ph.D. (Emory), Assistant Professor
- M. Mahtani, B.A. (Dalhousie), Ph.D. (London), Associate Professor
- S.J. Rockel, M.A., Ph.D. (Toronto), Associate Professor
- A. Rubinoff, A.B. (Allegheny), M.A., Ph.D. (Chicago), Professor Emeritus
- S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor Emerita
- J. Teichman, B.A., M.A., Ph.D. (Toronto), Professor

International Studies Programs

MAJOR PROGRAM IN INTERNATIONAL STUDIES (ARTS)

Enrolment in the Major Program in International Studies has been suspended indefinitely. Students who first enrolled at UTSC prior to the 2010 Summer Session will be able to complete the program provided they have completed (ISTB01H3) by the end of the 2010 Fall Session. Students who enrolled prior to the 2010 Summer Session should refer to the 2009/2010 UTSC Calendar.

Note: (ISTB01H3) is no longer offered. Students may take IDSB10H3 as a substitute.

International Studies Courses

ISTD01H3 Readings in International Studies
For upper level students whose interests are not covered in one of the other courses normally offered. Courses will normally only be available to students who have completed 15 full credits and all of the Core courses. Students must obtain consent from the Supervisor of Studies and supervising instructor before registering for this course.
Prerequisite: POLB80H3 & POLB81H3 & [(ISTB01H3) or IDSB10H3]
Journalism

Faculty List

- K. Burchell, B.A. (McGill), MSc. (London), Ph.D. (London), Assistant Professor
- J. Dvorkin, B.A. Hon. (Alberta), M.A. (Toronto), M. Phil. (London), Lecturer
- M. Mahtani, B.A. (Dalhousie), Ph.D. (London), Associate Professor

Journalism Programs

SPECIALIST (JOINT) PROGRAM IN JOURNALISM (ARTS)

Program Director: J. Dvorkin (416-287-7163) Email: journalism@utsc.utoronto.ca

This program may be taken in fulfillment of the requirements of a four-year (20.0 credit) Honours B.A. Degree and requires four to five years to complete. In addition to completing the requirements for the degree, students will also qualify for the Advanced College Diploma from Centennial College.

Courses are taught at both U of T Scarborough and at Centennial College (The Story Arts Centre in East York). Centennial courses are taken during three consecutive college semesters starting in the third year of the program. Students must be registered on a full-time basis while at Centennial College. The course work may include evenings and weekends. A final semester prior to graduation is on the UTSC campus where a "capstone course" is required along with a work placement of 15 weeks.

Students must maintain a Cumulative Grade Point Average (CGPA) of 2.0 or higher to remain in the program.

Guidelines for 1st year course selection
Students intending to complete the program should include the following in their first year course selection:
MDSA01H3 and JOUA01H3 and JOUA02H3 and ACMB01H3 and other courses of interest.

Guidelines for computer and software selection
Students accepted in the Joint Program in Journalism are advised to purchase an industry standard laptop and obtain designated software and hardware.
- Computer: 13-inch Apple MacBook Pro capable of running the current version of Adobe software.
- Software: Microsoft Office Suite (Word, Excel, Powerpoint), 2010 or more recent version, and Adobe Photoshop (most recent version).
- For questions regarding camera equipment, please contact the Centennial College Program Coordinator, Prof. Tim Doyle TDoyle@centennialcollege.ca

The Journalism Study Guide is available at: www.utsc.utoronto.ca/~humdiv/prg_jo.html

Program Admission
Limited enrolment. Applicants must fill out a joint program application form, which is available online at www.utsc.utoronto.ca/jtprogs

Program Requirements
This program requires the completion of at least 13.5 credits, as indicated below:

1. First Year (2.5 credits):
   Introductory Journalism Courses (1.0 credit)
   JOUA01H3 Introduction to Journalism I
   JOUA02H3 Introduction to Journalism II

   Introductory Media Studies Courses (0.5 credit)
   MDSA01H3 Introduction to Media Studies

   Introductory Humanities Courses (1.0 credit)
   ACM801H3 Critical Reading, Thinking and Writing for ACM Programs
   ACM802H3 Methods of Inquiry and Investigation for ACM Programs

2. Second Year (2.0 credits):
   Journalism Core Courses
   JOUB01H3 Covering Immigration and Transnational Issues
   JOUB02H3 Critical Journalism
   JOUB24H3 Journalism in the Age of New Media
JOUB39H3 Fundamentals of Journalistic Writing

3. Third Year (4.5 credits):
Journalism Application Courses

(a) Centennial College Group 1 (2.0 credits)
* JOUA06H3 Journalism Law and Ethics
* JOUB11H3 News Reporting
* JOUB14H3 Multiplatform Design
* JOUB18H3 Imaging: Photography for Journalists
* A minimum grade of 60% is required in these courses to pass and maintain standing in the program.
Note: students will be eligible to enrol in Centennial College Group 1 courses after successfully completing at least 10.0 credits at the University of Toronto Scarborough (or obtaining permission of the Program Director), including JOUA01H3, JOUA02H3, MDSA01H3, JOUB01H3, JOUB02H3, JOUB24H3, JOUB39H3, ACMB01H3, and ACMB02H3.

(b) Centennial College Group 2 (2.5 credits)
* JOUB03H3 Magazine/Freelance Journalism
* JOUB05H3 Advanced Interviewing Techniques
* JOUB10H3 News Laboratory I
* JOUB17H3 Radio News
* JOUB20H3 Interactive Journalism
* A minimum grade of 60% is required in these courses to pass and maintain standing in the program.
Note: students will be eligible to enrol in Centennial College Group 2 courses after successfully completing the courses from Centennial College Group 1 above.

4. Third/Fourth Year:
(a) 1.5 credits at the C- or D-level in JOU courses, of which at least 0.5 credit must be at the D-level. Selection of these courses may be made only after prior consultation with the Program Director.
(b) Courses that satisfy the requirements of one Minor Program. Note: Courses used to meet this requirement may also be applied to requirements 1, 2 and 4(a).

5. Fourth Year (3.0 credits):
Advanced Journalism Application Courses

Centennial College Group 3 (2.0 credits)
* JOUC13H3 Entrepreneurial Reporting
* JOUC16Y3 News Laboratory II
* JOUC17H3 Television News
* A minimum grade of 60% is required in these courses to pass and maintain standing in the program.
Note: students will be eligible to enrol in Centennial College Group 3 courses after successfully completing the courses from Centennial College Group 2 above.

D-level Journalism Courses (0.5 credit)
JOUD10H3 Senior Seminar in Journalism
Note: this course is held on the UTSC campus

Journalism Field Placement (0.5 credit)
* JOUC25H3 Field Placement
* A minimum grade of 60% is required in this course to pass and maintain standing in the program. Students are also required to have completed a non-credit Career Management course prior to starting their field placement. No academic credit is given for the Career Management course and no fee is charged. Students must contact their Program Coordinator at Centennial College to enroll in the Career Management course, they cannot enroll in this course via ACORN.
Note: students will be eligible to enrol in this course after successfully completing the courses from Centennial College Group 3 above.

Journalism Courses

JOUA01H3 Introduction to Journalism I
An introduction to the social, historical, philosophical, and practical contexts of the media. The course will examine various types of media and the role of the journalist. Students will be introduced to story forms and journalistic skills. Media coverage of current issues will be discussed.
Exclusion: (MDSA21H3)
Breadth Requirement: Arts, Literature & Language
JOUB02H3 Introduction to Journalism II
A continuation of JOUA01H3.
Prerequisite: (MDSA21H3) or JOUA01H3
Exclusion: (MDSA22H3)
Breadth Requirement: Arts, Literature & Language

JOUB05H3 Advanced Interviewing Techniques
Students analyze professional interviews, critique student interviews, conduct research and interview newsmakers. This is as much a “people” skills course as it is a course in learning how to ask the right questions. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 12 credits, including JOUA06H3 & JOUB11H3 & JOUB14H3 & JOUB18H3
Corequisite: JOUB03H3 & JOUB10H3 & JOUB17H3 & JOUB20H3
Breadth Requirement: Arts, Literature & Language

JOUB06H3 Journalism Law and Ethics
An examination of the key legal and ethical issues facing Canadian journalists, with an emphasis on the practical: what a journalist needs to know to avoid legal problems and develop strategies for handling ethical challenges. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 10 credits including [(MDSA21H3) or JOUA01H3], [(MDSA22H3) or JOUA02H3], [(MDSB26H3) or JOUB01H3], [(MDSB27H3) or JOUB02H3], (HUMB11H3)
Corequisite: JOUB11H3 & JOUB14H3 & JOUB18H3
Exclusion: (MDSB04H3)
Breadth Requirement: History, Philosophy & Cultural Studies

JOUB07H3 Covering Immigration and Transnational Issues
An examination of Canadian coverage of immigration and transnational issues. With the shift in Canada's demographics, media outlets are struggling to adapt to new realities. We will explore how media frame the public policy debate on immigration, multiculturalism, diaspora communities, and transnational issues which link Canada to the developing world. This course is open only to students in the Journalism Joint Program.
Prerequisite: [(HUMA01H3) & (MDSA21H3) or JOUA01H3] & (MDSA22H3) or JOUA02H3
Exclusion: (MDSB26H3)
Breadth Requirement: Arts, Literature & Language

JOUB08H3 Critical Journalism
The course examines the representation of race, gender, class and power in the media, traditional journalistic practices and newsroom culture. It will prepare students who wish to work in a media-related industry with a critical perspective towards understanding the marginalization of particular groups in the media. The course is open only to students in the Journalism Joint Program.
Prerequisite: 4.0 credits including (HUMA01H3) & [(MDSA21H3) or JOUA01H3] & [(MDSA22H3) or JOUA02H3].
Exclusion: (MDSB27H3)
Breadth Requirement: Arts, Literature & Language

JOUB09H3 Multiplatform Design
This course provides an introduction to the principles of design and aims to help students develop the skills they will need to package and present news and feature content across print and digital platforms. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.
Prerequisite: 10 credits including [(MDSA21H3) or JOUA01H3], [(MDSA22H3) or JOUA02H3], [(MDSB26H3) or JOUB01H3], [(MDSB27H3) or JOUB02H3], (HUMB11H3).
Corequisite: JOUA06H3 & JOUB14H3 & JOUB18H3
Breadth Requirement: Arts, Literature & Language

JOUB10H3 News Laboratory I
Practical experience on “The Observer”, an online and printed community news publication serving East York and Scarborough. The work includes reporting, photography, page design, website and multimedia production and social media. The work might include evenings and weekends. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 12 credits, including JOUA06H3 & JOUB11H3 & JOUB14H3 & JOUB18H3
Corequisite: JOUB03H3 & JOUB05H3 & JOUB17H3 & JOUB20H3
Breadth Requirement: Arts, Literature & Language

JOUB11H3 News Reporting
Practice in reporting, from a news story to feature and profile writing and coverage of the police, courts, sports, politics and Toronto City Hall. Students learn how to blog, tweet, shoot video and edit simple audio and TV news stories. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 10 credits including [(MDSA21H3) or JOUA01H3], [(MDSA22H3) or JOUA02H3], [(MDSB26H3) or JOUB01H3], [(MDSB27H3) or JOUB02H3], (HUMB11H3).
Corequisite: JOUA06H3 & JOUB14H3 & JOUB18H3
Breadth Requirement: Arts, Literature & Language

JOUB12H3 News Laboratory II
Practical experience in “The Observer” as a writing and design assignment. Students work in teams on a weekly deadline to produce live-to-air (via Internet) newscasts and podcasts. Stories are edited using professional digital audio software. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 12 credits, including JOUA06H3 & JOUB11H3 & JOUB14H3 & JOUB18H3
Corequisite: JOUB03H3 & JOUB05H3 & JOUB17H3 & JOUB20H3
Breadth Requirement: Arts, Literature & Language

JOUB13H3 Critical Thinking
This course is a practical skills course as it is a course in learning how to ask the right questions. Students analyze professional interviews, critique student interviews, conduct research and interview newsmakers. This is as much a “people” skills course as it is a course in learning how to ask the right questions. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 12 credits, including JOUA06H3 & JOUB11H3 & JOUB14H3 & JOUB18H3
Corequisite: JOUB03H3 & JOUB10H3 & JOUB17H3 & JOUB20H3
Breadth Requirement: Arts, Literature & Language

JOUB14H3 Multiplatform Design
This course provides an introduction to the principles of design and aims to help students develop the skills they will need to package and present news and feature content across print and digital platforms. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.
Prerequisite: 10 credits including [(MDSA21H3) or JOUA01H3] and [(MDSA22H3) or JOUA02H3] and [(MDSB26H3) or JOUB01H3] and [(MDSB27H3) or JOUB02H3]; students must have a minimum 2.0 CGPA to take this course.
Corequisite: JOUA06H3 & JOUB11H3 & JOUB18H3
Breadth Requirement: Arts, Literature & Language

JOUB15H3 Radio News
The basics of radio journalism. Students use digital audio recorders and handheld microphones and operate the Observer Radio News control room to produce live-to-air (via Internet) newscasts and podcasts. Stories are edited using professional digital audio software. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.
Prerequisite: 12 credits, including JOUA06H3 & JOUB11H3 & JOUB14H3 & JOUB18H3
Corequisite: JOUB03H3 & JOUB05H3 & JOUB10H3 & JOUB20H3
Breadth Requirement: Arts, Literature & Language
**JOUB18H3 Imaging: Photography for Journalists**

An introduction to the basic concepts of photography and a deeper examination of the principles of photojournalism. Students create photo stories using a range of equipment (portable, battery-operated flash equipment, digital cameras, etc.) and learn how to edit images for publication, either in print or in Web form. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.

Prerequisite: 10 credits including [(MDSA21H3) or JOUA01H3], [(MDSA22H3) or JOUA02H3], [(MDSB26H3) or JOUB01H3], [(MDSB27H3) or JOUB02H3], (HUMB11H3).  
Corequisite: JOUA06H3 & JOUB11H3 & JOUB14H3  
Breadth Requirement: Arts, Literature & Language

**JOUB20H3 Interactive Journalism**

Newsgathering today requires journalists to be able to file to a number of different media platforms. This course builds on JOUB11H3 and introduces students to new production protocols appropriate for digital news media. It focuses on orienting students to the multiplatform and web-focused environment by refining reporting/writing/production skills already acquired for the special needs of digital news operations. Using a multiplatform, newsroom-in-action format, the course includes instruction in skills related to gathering, editing and uploading custom interactive content and data presentations and will outline protocols for audience interaction. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

Prerequisite: 12 credits, including JOUA06H3, JOUB11H3, JOUB14H3 & JOUB18H3; students must have a minimum 2.0 CGPA to take this course.

Corequisite: JOUB03H3, JOUB05H3, JOUB10H3 & JOUB17H3  
Breadth Requirement: Arts, Literature & Language

**JOUB24H3 Journalism in the Age of New Media**

Journalism is undergoing a revolutionary change. Old trusted formats are falling away and young people are consuming, producing, exchanging, and absorbing news in a different way. The course will help students critically analyze new media models and give them the road map they will need to negotiate and work in New Media. This course is open only to students in the Journalism Joint Program.  
Exclusion: (MDSB24H3)  
Breadth Requirement: Arts, Literature & Language

**JOUB39H3 Fundamentals of Journalistic Writing**

An overview of the standard rules and techniques of journalistic writing. The course examines the basics of good writing style including words and structures most likely to cause problems for writers. Students will develop their writing skills through assignments designed to help them conceive, develop, and produce works of journalism. This course is open only to students in the Journalism Joint Program.

Prerequisite: [(MDSA21H3) or JOUA01H3] & [(MDSA22H3) or JOUA02H3] & (HUMA01H3).  
Exclusion: (MDSB39H3)  
Breadth Requirement: Arts, Literature & Language

**JOUC13H3 Entrepreneurial Reporting**

This is an advanced, multimedia content-driven course where students, working in groups and under faculty supervision, select a narrow topic and conduct preliminary research to prepare and present a proposal. After the approval of their proposal, students will research, write, shoot and produce a series of stories, including at least one documentary-style video, and for a final project, a website and a magazine. Students will be graded on their individual work as well as their teamwork and professionalism. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

Prerequisite: 14.5 credits, including JOUB03H3, JOUB05H3, JOUB10H3, JOUB17H3 & [(JOUB09H3) or JOUB20H3]; students must have a minimum 2.0 CGPA to take this course.

Corequisite: JOUC16Y3 & JOUC17H3  
Breadth Requirement: Arts, Literature & Language

**JOUC16Y3 News Laboratory II**

Advanced experience on "The Observer", an online and printed news publication serving East York and Scarborough. The work includes research, field reporting, writing, photography, page design, website production and social media. The workload might include evenings and weekends. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.

Prerequisite: 14.5 credits, including JOUB03H3 & JOUB05H3 & JOUB10H3 & JOUB17H3 & [(JOUB09H3) or JOUB20H3]  
Corequisite: JOUC13H3 & JOUC17H3  
Breadth Requirement: Arts, Literature & Language

**JOUC17H3 Television News**

This course focuses on advanced multiplatform video journalism. Students learn how to shoot, edit and package editorial content. Students also staff live-to-air news programs where they anchor the news, sports, weather and entertainment. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.

Prerequisite: 14.5 credits, including JOUB03H3 & JOUB05H3 & JOUB10H3 & JOUB17H3 & [(JOUB09H3) or JOUB20H3]  
Corequisite: JOUC13H3 & JOUC16Y3  
Breadth Requirement: Arts, Literature & Language

**JOUC25H3 Field Placement**

In Field Placement, students use theoretical knowledge and applied skills in professional journalistic environments. Through individual work and as team members, students create editorial content on various platforms and undertake academic research and writing assignments that require them to reflect upon issues arising from their work placement experience. This course is taught at Centennial College and is open only to students in the Journalism Joint Program.

Prerequisite: Students must be in good standing and have successfully completed groups 1, 2, and 3 of the Centennial College phase of the Specialist (Joint) program in Journalism. In addition, students are required to have completed a non-credit Career Management course prior to starting their field placement.

Breadth Requirement: Arts, Literature & Language  
NOTE: No academic credit is given for the Career Management course and no fee charged. Students must contact their Program Coordinator at Centennial College to arrange for enrolment in the course.

**JOUC30H3 Critical Approaches to Style, Form and Narrative**

The forms of Journalism are being challenged as reporting styles diverge and change overtime, across genres and media. New forms of narrative experimentation are opened up by the Internet and multimedia platforms. How do participatory cultures challenge journalists to experiment with media and language to create new audience experiences?

Prerequisite: ACMB01H3 and MDSB05H3 and JOUB39H3  
Breadth Requirement: Arts, Literature & Language  
NOTE: Priority will be given to students in the Specialist (Joint) program in Journalism.
JOUC31H3 Journalism, Information Sharing and Technological Change
The nexus between journalism, civic engagement and changing technologies presents opportunities and challenges for the way information is produced, consumed and shared. Topics range from citizen and networked journalism, mobile online cultures of social movements and everyday life, to the complicated promises of the internet’s democratizing potential and data-based problem solving.
Prerequisite: ACMB01H3 and JOUB24H3
Exclusion: MDSB25H3
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students in the Specialist (Joint) program in Journalism.

JOUC62H3 Media and the World of Work
The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context.
Same as MDSC62H3
Prerequisite: ACMB01H3 and [[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]]
Exclusion: MDSC62H3
Breadth Requirement: Arts, Literature & Language

JOUC63H3 Media Ethics
Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture.
Same as MDSC63H3
Prerequisite: ACMB01H3 and [[MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3]]
Exclusion: MDSC63H3
Breadth Requirement: History, Philosophy & Cultural Studies

JOUD10H3 Senior Seminar in Journalism
A project-oriented capstone course requiring students to demonstrate the skills and knowledge necessary for contemporary journalism. Students will create a project that will serve as part of a portfolio or as a scholarly exploration of the state of the mass media. This course is open only to students in the Journalism Joint Program.
Prerequisite: JOUC13H3 and JOUC16Y3 and JOUC17H3
Breadth Requirement: Arts, Literature & Language

JOUD11H3 Senior Research Seminar in Journalism
Focusing on independent research, this course requires students to demonstrate the necessary analysis, research and writing skills required for advanced study. This seminar course provides the essential research skills for graduate work and other research-intensive contexts. Students will design and undertake unique and independent research about the state of journalism.
Prerequisite: [1.0 credit from the following: JOUB02H3, JOUC30H3, JOUC31H3]
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students in the Specialist (Joint) program in Journalism.

JOUD12H3 Journalism at the Intersection of Politics, Economics and Ethics
Journalism is a field that influences –and is influenced by –politics, finance, and civil society. This course raises contentious questions about power and responsibility at the core of journalism’s role in society. Challenges to the obligations of responsible journalism are examined through changing economic pressures and ties to political cultures.
Prerequisite: [1.0 credit from the following: JOUC30H3, JOUC31H3, JOUC62H3, JOUC63H3]
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students in the Specialist (Joint) program in Journalism.

Media Studies

MDSA02H3 History of Media
See the Media Studies section of this Calendar for full course descriptions.
Languages

Faculty List

- R. Helms-Park, M.A., Ph.D. (Toronto), Associate Professor
- P.R. León, M.A., Ph.D. (Cornell), Professor Emeritus
- C.V. Ponomareff, M.A., Ph.D. (Toronto), Professor Emeritus
- R. Skyrme, B.A., M.Litt. (Bristol), M.A., Ph.D. (Michigan), Professor Emeritus
- E. Takahashi, B.A. (International Christian University), Ph.D. (Maryland), Lecturer
- H. Wittmann, M.A., Ph.D. (Mass.), Professor Emeritus
- H.X. Wu, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream

The courses listed under LGG include language courses in Hindi, Japanese, Mandarin Chinese, and Tamil.

Registration in all courses with the prefix LGG is subject to the approval of the instructor. Students will be assessed at the beginning of the course in a manner to be determined by the instructor. Students whose level of proficiency in the language is inappropriate for the level of the course will not be approved for enrolment. In some courses, the status of students will be listed as “interim” (INT) until they are approved (APP) by their instructors. Note that students are not permitted to take courses in a language in the wrong sequence (i.e., a lower-level course after a higher-level one).

For further information about language courses, please consult the CFL Undergraduate Assistant, at cfl-ua@utsc.utoronto.ca or, where appropriate, the instructors of these courses.

Language Citation

UTSC offers a range of language opportunities and, as students seek international study, work opportunities and post-graduate study, they may be assisted by a notation of language proficiency. See the Language Citation section of the Calendar for more information about this notation.

Languages Programs

MINOR PROGRAM IN ENGLISH TO CHINESE TRANSLATION (ARTS)

This program is designed for students, fluent in both English and Chinese, who are interested in English to Chinese translation. It will equip students with the fundamental theoretical knowledge and practical skills required in this profession.

Program Requirements

Students are required to complete a total of 4.0 credits.

1. 2.0 credits:
   - LINA01H3 Introduction to Linguistics
   - LINB06H3 Syntax
   - LINB60H3 Structure of Chinese
   - ECTB61H3 English to Chinese Translation: Theory and Practice

2. 1.0 credit from the following:
   - ECTC61H3 Translation Studies in Literature
   - ECTD68H3 Translation for Business and Media
   - ECTD69H3 Translation for Government and Public Administration

3. 1.0 credit from the following:
   - LGGC64H3 Reading Chinese: China from the Inside Out
   - LGGC65H3 Reading Chinese: Global Perspectives
   - LGGC66H3 Classical Chinese
   - LGGC67H3 Literary Chinese

Languages Courses

ECTB60H3 Food, Cultures, and Translation

From wheat to seafood, Canada’s food exports to China are increasing and Chinese food is popular in Canada. This course explores food, cultures, and translation using materials in Chinese and English. It gives text analysis in translation and hands-on translation experience from English to Chinese and/or from Chinese into English.

Prerequisite: LGGB60H3

Breadth Requirement: Arts, Literature & Language
NOTE: Student will need to have a good command of both English and Chinese.

ECTB61H3 English to Chinese Translation: Theory and Practice
An introduction to the major concepts and theories of translation and a survey of English/Chinese translation in history. It discusses linguistic, cognitive, socio-political, and cultural aspects of translation. Through analysis and application of translation theory, students practice the art of translation and develop awareness of issues that translators face.
Recommended Preparation: Proficiency in Chinese and English
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language
NOTE: Students must already have mastered the principles of grammar and composition in both English and Chinese.

ECTC61H3 Translation Studies in Literature
This course focuses on the principles and techniques of literary translation from English to Chinese and vice versa. Students will study various translations and practice translating the works of Canadian writers such as those by Alice Munro and Margaret Atwood. Style and technique will be stressed throughout the course.
Prerequisite: ECTB61H3
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Minor in English To Chinese Translation. Other students will be admitted as space permits.

ECTD68H3 Translation for Business and Media
Guided by translation theories and techniques, students learn the lexicon, structure, and style used in business and media discourse and gain hands-on experience in translating real-life documents regarding business and media for large Chinese communities within Canada.
Prerequisite: ECTB61H3 and [LGGC64H3 or LGGC65H3 or LGGC66H3 or LGGG67H3]. Students must have a minimum GPA of 70% in LGGC64H or LGGC65H or LGGC66H (or an equivalent through an interview).
Recommended Preparation: High proficiency in both Chinese and English.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

ECTD69H3 Translation for Government and Public Administration
This course covers the English/Chinese translation of documents used in government, public administration, and publicly-funded organizations. It introduces the terminologies and special strategies used to translate official documents. Examples of relevant documents will be translated as part of the course work.
Prerequisite: ECTB61H3 and [LGGC64H3 or LGGC65H3 or LGGC66H3 or LGGG67H3]. Students must have a minimum GPA of 70% in LGGC64H or LGGC65H or LGGC66H (or an equivalent through an interview).
Recommended Preparation: High proficiency in both Chinese and English.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGA61H3 Introductory Mandarin II
A continuation of LGGA60H3. This course will build on the skills learned in LGGA60H3.
Prerequisite: LGGA60H3 or (LGGA01H3)
Exclusion: All EAS, CHI & LGG Chinese courses except LGGA60H3 or (LGGA01H3). The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

LGGA70H3 Introductory Hindi I
An elementary course for students with no knowledge of Hindi. Students learn the Devanagari script and the Hindi sound system in order to start reading and writing in Hindi. The course also develops listening and speaking skills through culturally-based materials. Course materials are enhanced by audio-visual and computer-based activities.
Exclusion: HIN212Y, NEW212Y, any knowledge of Hindi. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. Note: Students who speak Hindi or Urdu as a home language should enrol in LGG70H3 or LGG71H3.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGA71H3 Introductory Hindi II
A continuation of LGGA70H3.
Prerequisite: LGGA70H3
Exclusion: HIN212Y, NEW212Y, knowledge of Hindi beyond materials covered in LGGA70H3. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

LGGA74H3 Introductory Tamil I
An elementary course for students with minimal or no knowledge of Tamil. Students learn the Tamil script and sound system. The course also develops listening and speaking skills through culturally-based materials. Course materials are enhanced by audio-visual and computer-based activities.
Exclusion: NEW213Y, high school Tamil, more than minimal knowledge of Tamil. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGA75H3 Introductory Tamil II
A continuation of LGGA74H3.
Prerequisite: LGGA74H3
Exclusion: NEW213Y, knowledge of Tamil beyond materials covered in LGGA74H3. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies
Languages

LGGA80H3 Introductory Japanese I
A beginning course for those with minimal or no knowledge of Japanese. The course builds proficiency in both language and culture. Language practice includes oral skills for simple daily conversation; students will be introduced to the Japanese writing systems and learn to read and write simple pasages.
Exclusion: EAS120Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGA81H3 Introductory Japanese II
Continuation of Introductory Japanese I.
Prerequisite: LGGA80H3
Exclusion: EAS120Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

LGGB60H3 Intermediate Mandarin I
This course will develop listening, speaking, reading, and writing skills in Mandarin. Writing tasks will help students to progress from characters to compositions and will include translation from Mandarin to English and vice versa. The course is not open to students who have more than the rudiments of Mandarin.
Prerequisite: LGGA61H3 or (LGGA02H3)
Exclusion: All EAS & CHI 200- and higher level Chinese language courses; all B- and higher level LGG Chinese language courses; native speakers of any variety of Chinese. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGB61H3 Intermediate Mandarin II
A continuation of LGGB60H3.
Prerequisite: LGGB60H3 or LGGB64H3
Exclusion: All EAS & CHI 200- and higher level Chinese language courses; all B- and higher level LGG Chinese language courses except LGGB60H3 or LGGB64H3; native speakers of any variety of Chinese. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGB62H3 Intermediate Mandarin for Heritage Students I
This course will further improve the literacy skills of heritage students by studying more linguistically sophisticated and topical extensive texts. Those who have not studied pinyin, the Mandarin pronunciation tool, but know about 600-800 complex or simplified Chinese characters should take this course instead of courses LGGB64H3 and LGGB65H3.
Prerequisite: (LGGA63H3)
Exclusion: All EAS & CHI 200- and higher level Chinese courses; all B- and higher level LGG language Chinese courses. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGB63H3 Intermediate Mandarin for Heritage Students II
A continuation of LGGB62H3.
Prerequisite: LGGB62H3
Exclusion: All EAS & CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language courses except LGGB62H3.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

LGGB64H3 Mandarin I for Students with Prior Background
An introduction to Mandarin for students who speak some Chinese (any dialect) because of their family backgrounds but have minimal or no literacy skills in the language. Emphasis is placed on Mandarin phonetics and literacy through reading, writing and translation (English to Chinese & Chinese to English).
Exclusion: (LGGA62H3). All EAS, CHI & LGG Chinese language courses. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 30
Breadth Requirement: Arts, Literature & Language

LGGB65H3 Mandarin II for Students with Prior Background
A continuation of LGGB64H3.
Prerequisite: LGGB64H3 or (LGGA62H3)
Exclusion: (LGGA63H3). All EAS, CHI & LGG Chinese language courses except LGGB64H3 or (LGGA62H3). The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisite.
Enrolment Limits: 30
Breadth Requirement: History, Philosophy & Cultural Studies

LGGB70H3 Hindi I for Students with Prior Background
Develops language and literacy through the study of Hindi cinema, music and dance along with an introduction to theatrical and storytelling traditions. The course enhances acquisition of cultural competence in Hindi with composition and conversation, complemented by culture-based material, film and other media.
Exclusion: Not for students educated in India. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language

LGGB71H3 Hindi II for Students with Prior Background
Continuation of LGGB70H3.
Prerequisite: LGGB70H3
Exclusion: Not for students educated in India. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course including those students who meet the prerequisite.
Enrolment Limits: 25
Breadth Requirement: History, Philosophy & Cultural Studies

LGGB74H3 Intermediate Tamil
Tamil language taught through culture for students with heritage language skills or prior formal study. The cultures of South India, Sri Lanka and diaspora populations will be studied to build literacy skills in the Tamil script as well as further development of speaking and listening skills.
Prerequisite: LGGA75H3
Exclusion: Not for students educated in Tamil Naadu or Sri Lanka.
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language
LGGC60H3 Advanced Mandarin I
This course develops all four language skills (speaking, listening, reading, and writing), with special attention to idiomatic expressions. Through a variety of texts and interactive materials, students will be introduced to aspects of Chinese life and culture. Prerequisite: LGGB61H3 or (LGGB04H3) Exclusion: LGGC62H3 or higher, all Chinese language courses with the exception of CHI100Y, CHI200Y, EAS100Y & EAS200Y Enrolment Limits: 30 Breadth Requirement: Arts, Literature & Language

LGGC61H3 Advanced Mandarin II
A continuation of LGGC60H3. Prerequisite: LGGC60H3 Exclusion: LGGC62H3 or higher, all EAS Chinese language courses with the exception of EAS100Y and EAS200Y Enrolment Limits: 30 Breadth Requirement: History, Philosophy & Cultural Studies

LGGC62H3 Advanced Mandarin: Culture in the East and West
Develops skills in spoken Mandarin and written varieties of Chinese. The course focuses on contrasts between Chinese and Western cultures. This course presents a variety of cultural and literary materials, through which students will further their language skills and learn approximately 400 new characters. Prerequisite: LGGB63H3 Exclusion: (LGGB66H3), (LGGB67H3), LGGC64H3, LGGC65H3, LGGC66H3, LGGC67H3 Enrolment Limits: 25 Breadth Requirement: Arts, Literature & Language

LGGC63H3 Advanced Mandarin: Pop Culture and the State
Develops skills in spoken Mandarin and written varieties of Chinese. The course focuses on the vision of the Chinese state presented in popular culture. This course presents a variety of text and non-text materials, through which students will further their language skills and learn approximately 400 new characters. Prerequisite: LGGB63H3 Exclusion: (LGGB66H3), (LGGB67H3), LGGC64H3, LGGC65H3, LGGC66H3, LGGC67H3 Enrolment Limits: 25 Breadth Requirement: History, Philosophy & Cultural Studies

LGGC64H3 Reading Chinese: China from the Inside Out
Intended for students who are able to read everyday publications, e.g., newspapers in either complex-form characters or simple-form characters. Pinyin, complex-simplified character conversion and vice versa, and fluency are emphasized through reading and discussing advanced materials in a variety of topics from global perspectives, presentations, and essay writing. Prerequisite: Online placement test and survey. Exclusion: LGGB66H3. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. Enrolment Limits: 30 Breadth Requirement: Arts, Literature & Language

LGGC65H3 Reading Chinese: Global Perspectives
Designed for students who are able to read everyday publications, e.g., newspapers in either complex-form characters or simple-form characters. Pinyin, complex-simplified character conversion and vice versa, and fluency are emphasized through reading and discussing advanced materials in a variety of topics from global perspectives, presentations, and essay writing. This course may be taken before or after LGGC64H3. Prerequisite: Online placement test and survey. Exclusion: (LGGB67H3); The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. Enrolment Limits: 30 Breadth Requirement: History, Philosophy & Cultural Studies

LGGC66H3 Classical Chinese
This course will examine pre-Qin Chinese classics such as the Book of Documents, the Analects of Confucius, the Mencius, the Dao De Jing, the Art of War, and some other philosophical maxims, proverbial sayings, rhyming couplets, idioms and poems that still have much impact on Chinese language and culture today. Prerequisite: LGGC64H3 or LGGC65H3 Exclusion: EAS358Y, (EAS206Y), EAS306Y Enrolment Limits: 30 Breadth Requirement: Arts, Literature & Language

LGGC67H3 Literary Chinese
This course will examine representative literary Chinese texts in Imperial China up to the early 20th century. They include prose of many dynasties, poetry of Tang (618-907) and Song (960-1297), and other genres in literary Chinese that are still very much alive in Chinese language and society today. Prerequisite: LGGC64H3 or LGGC65H3 Exclusion: EAS358Y, (EAS206Y), EAS306Y Enrolment Limits: 30 Breadth Requirement: History, Philosophy & Cultural Studies

LGGC68H3 Advanced Hindi: From Hindustan to Modern India
Advanced language learning through an introduction to the historical development of the Hindi language. Students develop language skills through the study of educational structure, and literary and cultural institutions in colonial and postcolonial India. The course studies a variety of texts and media and integrates composition and conversation. Prerequisite: [LGGB70H3 & LGGB71H3] Exclusion: Not for students educated in India. Enrolment Limits: 25 Breadth Requirement: Arts, Literature & Language

NOTE: A working knowledge of modern Chinese is assumed.

LGGC69H3 Advanced Hindi: From Hindustan to Modern India
Advanced language learning through an introduction to the historical development of the Hindi language. Students develop language skills through the study of educational structure, and literary and cultural institutions in colonial and postcolonial India. The course studies a variety of texts and media and integrates composition and conversation. Prerequisite: [LGGB70H3 & LGGB71H3] Exclusion: Not for students educated in India. Enrolment Limits: 25 Breadth Requirement: Arts, Literature & Language

NOTE: The sequence of courses offered in the Heritage and Non Heritage streams of Mandarin Chinese may not be adequate preparation for this course; those students may take this course; those students may take this course with the instructor's permission. LGGC64H3 may be taken before or after LGGC65H3.
Linguistics

Faculty List

- R.I. Binnick, B.A. (CUNY), M.A., Ph.D. (Chicago), Professor Emeritus
- R. Helms-Park, M.A., Ph.D. (Toronto), Associate Professor
- D.M. James, B.A. (UBC), M.A.(Cornell), Ph.D. (Michigan), Professor Emeritus
- Y. Kang, B.A. (Seoul National), Ph.D. (MIT), Associate Professor
- K. McCrindle, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- P. Monahan, B.A., M.A. (Florida), Ph.D. (Maryland), Assistant Professor
- J. Ndayiragije, M.A. (Montreal-UQAM), Ph.D. (Montreal-UQAM), Associate Professor
- R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor
- E. Takahashi, B.A. (International Christian University), Ph.D., (Maryland), Lecturer
- H.X. Wu, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream

Director: Karen McCrindle (cfldirector@utsc.utoronto.ca)
Associate Director: Juvenal Ndayiragije (juvenal@utsc.utoronto.ca)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Linguistics is the scientific study of human language. It encompasses theories of linguistic structure in all domains: speech sounds (phonetics and phonology), words (morphology), sentences (syntax), meaning (semantics), and texts or conversations (discourse). Other sub-fields of linguistics include psycholinguistics (language acquisition, language processing, learning how to read, and associated disorders, as well as the neural architecture underlying all of these); sociolinguistics (language variation according to region, gender, class, etc., as well as the social functions of language); historical linguistics (how languages change across time, and why); and applied linguistics (e.g. second language learning, translation, clinical linguistics).

The Major Program in Linguistics is designed to help students prepare for entry into professional programs in areas with a significant language component, such as speech/language pathology, education, and language teaching. Students with a particular interest in psycholinguistics can enrol in the Specialist Program in Psycholinguistics which provides excellent preparation for entry into postgraduate programs in speech/language pathology, psycholinguistics and education. The Specialist Program in Linguistics is designed for students who are interested in a more intensive study of linguistics or entry into a graduate program in linguistics.

Guidelines for 1st year course selection

Students intending to complete the Specialist Program in Psycholinguistics should include the following in their first year course selection: LINA01H3, LINA02H3, PSYA01H3, PSYA02H3. Students intending to complete the Specialist or Major Program in Linguistics should include LINA01H3 and LINA02H3 and should consider including a language course. Students intending to complete the Minor Program in Linguistics should include LINA01H3 and LINA02H3.

Note: For Co-op opportunities related to the Specialist Program in Psycholinguistics, the Specialist Program in Linguistics and the Major Program in Linguistics, please see Humanities and Social Sciences Co-operative Program section in this Calendar.

Linguistics Programs

SPECIALIST PROGRAM IN LINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements

Students must complete 12.0 credits, including 4.0 credits at the C- and D-level of which 1.0 credit must be at the D-level as follows:

1. All of the following:
   - LINA01H3 Introduction to Linguistics
   - LINA02H3 Applications of Linguistics
   - LINB04H3 Phonology I
   - LINB06H3 Syntax I
   - LINB09H3 Phonetics: The Study of Speech Sounds
   - LINB10H3 Morphology
   - LINC02H3 Phonology II
   - LINC11H3 Syntax II
   - LINC12H3 Semantics: The Study of Meaning
2. 4.5 credits from the following, including at least 1.5 credits from Group A and at least 1.5 credits from Group B:

**Group A**
- LINB13H3 Language Diversity and Language Universals
- LINB18H3 English Grammar
- LINB20H3 Sociolinguistics
- LINB60H3 Structure of Chinese
- LINB62H3 Structure of American Sign Language
- LINC28H3 Language and Gender
- LINC47H3 Pidgin and Creole Languages
- LINC61H3 Structure of a Language
- LIND09H3 Phonetic Analysis
- LIND29H3 Linguistic Research Methodologies

**Group B**
- LINB29H3 Quantitative Methods in Linguistics
- PLIC24H3 First Language Acquisition
- PLIC25H3 Second Language Acquisition
- PLIC55H3 Psycholinguistics
- PLID34H3 The Psycholinguistics of Reading
- PLID44H3 Acquisition of the Mental Lexicon
- PLID50H3 Speech Perception
- PLID55H3 Disorders of Speech and Language

3. 1.0 credit of language study in one or more languages, which may include LINB60H3 or LINB62H3 or LINC61H3; FRE or LGG courses or language courses at another campus.

4. A further 2.0 credits in any LIN, PLI, JAL or JLP courses.

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**SPECIALIST PROGRAM IN PSYCHOLINGUISTICS (ARTS)**

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

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**Program Requirements**

Students must complete 12.5 credits, including 4.0 credits at the C- and D-levels of which 1.0 credit must be at the D-level as follows:

1. LINA01H3 Introduction to Linguistics
2. LINA02H3 Applications of Linguistics
   - PSYA01H3 Introductory Psychology: Part I
   - PSYA02H3 Introductory Psychology: Part II
- LINB04H3 Phonology I
- LINB06H3 Syntax I
- LINB09H3 Phonetics: The Study of Speech Sounds
- LINB29H3 Quantitative Methods in Linguistics
- PLIC24H3 First Language Acquisition
- PLIC55H3 Psycholinguistics

3. 1.5 credits from the following courses:
   - LINB10H3 Morphology
   - LINB20H3 Sociolinguistics
   - LINC02H3 Phonology II
   - LINC11H3 Syntax II
   - LINC12H3 Semantics: The Study of Meaning

4. 2.5 credits from the following courses:
   - LINB62H3 Structure of American Sign Language
   - LIND09H3 Phonetic Analysis
   - PLIC25H3 Second Language Acquisition
   - PLIC75H3 Language and the Brain
   - PLID34H3 Psycholinguistics of Reading
   - PLID44H3 Acquisition of the Mental Lexicon
   - PLID50H3 Speech Perception
   - PLID55H3 Disorders of Speech and Language

5. 1.5 credits from the following courses:
   - PLIC54H3 Speech Physiology and Speech Disorders in Children and Adults
   - PLID56H3 Special Topics in Language Disorders in Children
   - PSYB20H3 Introduction to Developmental Psychology
   - [PSYB51H3 Perception and Cognition or PSYB57H3 Memory and Cognition]
   - PSYB65H3 Human Brain and Behaviour
   - PSYC21H3 Advanced Developmental Psychology
6. 2.0 further credits in LIN and/or PLI

MAJOR PROGRAM IN LINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 8.0 credits, as follows:
1. LINA01H3 Introduction to Linguistics
   LINA02H3 Applications of Linguistics
   LINB04H3 Phonology I
   LINB06H3 Syntax I
   LINB09H3 Phonetics: The Study of Speech Sounds
2. One of the following:
   LINB10H3 Morphology
   LINB20H3 Sociolinguistics
   LINC12H3 Semantics: The Study of Meaning
3. 4.0 further credits in LIN and/or PLI, of which at least two credits must be at the C- or D-level.
4. 1.0 credit of language study in one or more languages, which may include FRE or LGG courses; language courses at another campus; LINB60H3 or LINB62H3 or LINC61H3.

MINOR PROGRAM IN LINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

Program Requirements
Students must complete 4.0 credits, as follows:
All of the following courses:
1. LINA01H3 Introduction to Linguistics
   LINA02H3 Applications of Linguistics
2. Any two of the following:
   LINB04H3 Phonology I
   LINB06H3 Syntax I
   LINB09H3 Phonetics: The Study of Speech Sounds
   LINB10H3 Morphology
3. 2.0 further credits in LIN and/or PLI of which at least 1.0 credit must be at the C- or D-level.

Linguistics Courses

LINA01H3 Introduction to Linguistics
An introduction to the various methods and theories of analyzing speech sounds, words, sentences and meanings, both in particular languages and language in general.
Exclusion: LIN100Y
Breadth Requirement: Arts, Literature & Language

LINA02H3 Applications of Linguistics
Application of the concepts and methods acquired in LINA01H3 to the study of, and research into, language history and language change; the acquisition of languages; language disorders; the psychology of language; language and in the brain; and the sociology of language.
Prerequisite: LINA01H3
Exclusion: LIN100Y
Breadth Requirement: Arts, Literature & Language

LINB04H3 Phonology I
Practice in analysis of sound patterns in a broad variety of languages.
Prerequisite: LINB09H3
Exclusion: LIN229H
Breadth Requirement: Arts, Literature & Language

LINB06H3 Syntax I
Practice in analysis of sentence structure in a broad variety of languages.
Prerequisite: LINA01H3
Exclusion: LIN232H
Breadth Requirement: Arts, Literature & Language

LINB09H3 Phonetics: The Study of Speech Sounds
An examination of physiological and acoustic bases of speech.
Prerequisite: LINA01H3
Exclusion: LIN228H
Breadth Requirement: Natural Sciences
LINC02H3 Phonology II
Basic issues in phonological theory. This course assumes familiarity with phonetic principles, as discussed in LINC09H3, and with phonological problem-solving methods, as discussed in LINC04H3.
Prerequisite: LINC04H3 & LINC09H3
Exclusion: LIN322H
Breadth Requirement: Arts, Literature & Language

LINC11H3 Syntax II
Core issues in syntactic theory, with emphasis on universal principles and syntactic variation between French and English.
Same as FREC46H3
Prerequisite: LINC06H3 or FREB45H3
Exclusion: LIN232H, LIN331H, FRE378H, FREC46H3
Breadth Requirement: Arts, Literature & Language

LINC12H3 Semantics: The Study of Meaning
An introduction to the role of meaning in the structure, function, and use of language. Approaches to the notion of meaning as applied to English and French data will be examined.
Same as FREC12H3.
Prerequisite: LINA01H3 or [FREB44H3 and FREB45H3]
Exclusion: FREC12H3, FRE386H, LIN241H, LIN341H, (FREC49H3), (FRED49H3)
Breadth Requirement: History, Philosophy & Cultural Studies

LINC28H3 Language and Gender
An introduction to the research on differences between women and men in how they use language and how they behave in conversational interaction, together with an examination of the role of language in reflecting and perpetuating cultural attitudes towards gender.
Same as WSTC28H3
Prerequisite: LINA01H3 and one full credit at the B-level in ANT, LIN, SOC or WST
Exclusion: JAL355H, WSTC28H3
Breadth Requirement: Social & Behavioural Sciences

LINC47H3 Pidgin and Creole Languages
A study of pidgin and Creole languages worldwide. The course will introduce students to the often complex grammars of these languages and examine French, English, Spanish, and Dutch-based Creoles, as well as regional varieties. It will include some socio-historical discussion.
Same as WSTC28H3
Prerequisite: [LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3]
Exclusion: FREC47H3
Breadth Requirement: Arts, Literature & Language

LINC61H3 Structure of a Language
An introduction to the phonetics, phonology, word-formation rules, syntax, and script of a featured language other than English or French. Students will use the tools of linguistic analysis learned in prior courses to examine the structural properties of this language. No prior knowledge of the language is necessary.
Prerequisite: LINC04H3 and LINC06H3
Exclusion: LIN409H
Breadth Requirement: Arts, Literature & Language
LIND01H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for Linguistics.
Prerequisite: At least one full credit at the C-level in LIN and permission of the instructor.

LIND02H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for Linguistics.
Prerequisite: At least one full credit at the C-level in LIN and permission of the instructor.

LIND03H3 Independent Study in Linguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for Linguistics.
Prerequisite: At least one full credit at the C-level in LIN and permission of the instructor.

LIND07Y3 Independent Study in Linguistics
A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Associate Director for further information.
Prerequisite: At least 1.0 credit at the C-level in LIN courses and permission of the Linguistics Associate Director
Exclusion: LINC495Y

LIND09H3 Phonetic Analysis
Practical application of phonetic theory with special emphasis on instrumental and experimental techniques.
Prerequisite: LINB09H3
Exclusion: LIN423H, (LINC09H3)
Breadth Requirement: Natural Sciences

LIND29H3 Linguistic Research Methodologies
This course focuses on research methodologies (interviews, corpus collection, surveys, ethnography, etc.). Students conduct individual research studies in real-life contexts.
Prerequisite: LINB04H3 and LINB06H3 and LINB10H3
Breadth Requirement: Arts, Literature & Language
NOTE: Topics will vary each time the course is offered. Please check with the CFL Undergraduate Assistant or on the Web Timetable on the Registrars Office website for details regarding proposed subject matter.

LIND46H3 Field Methods in Linguistics
Practice in language analysis based on elicited data from second language learners and foreign speakers. Emphasis is put on procedures and techniques of data collection, as well as theoretical implications arising from data analysis.
Prerequisite: [FREB44H3 and FREC46H3] or [LINC02H3 and LINC11H3]
Exclusion: (FRED46H3), JAL401H
Breadth Requirement: Arts, Literature & Language

PLIC24H3 First Language Acquisition
Descriptions of children's pronunciation, vocabulary and grammar at various stages of learning their first language. Theories of the linguistic knowledge and cognitive processes that underlie and develop along with language learning.
Prerequisite: LINB04H3 or LINB06H3 or LINB09H3
Exclusion: JLP315H
Breadth Requirement: Natural Sciences

PLIC25H3 Second Language Acquisition
The stages adults and children go through when learning a second language. The course examines linguistic, cognitive, neurological, social, and personality variables that influence second language acquisition.
Prerequisite: LINA01H3 and [LINB06H3 or LINB09H3] or [FREB44H3 & FREB45H3]
Exclusion: (LINB25H3), (PLIB25H3)
Breadth Requirement: Natural Sciences

PLIC54H3 Speech Physiology and Speech Disorders in Children and Adults
An introduction to the physics of sound and the physiology of speech perception and production for the purpose of assessing and treating speech disorders in children and adults. Topics will include acoustic, perceptual, kinematic, and aerodynamic methods of assessing speech disorders as well as current computer applications that facilitate assessment.
Prerequisite: LINB09H3
Breadth Requirement: Natural Sciences

PLIC55H3 Psycholinguistics
Experimental evidence for theories of how humans produce and understand language, and of how language is represented in the mind. Topics include speech perception, word retrieval, use of grammar in comprehension and production, discourse comprehension, and the role of memory systems in language processing.
Prerequisite: LINB06H3 or LINB09H3
Exclusion: JLP374H
Breadth Requirement: Natural Sciences

PLIC75H3 Language and the Brain
An introduction to neurolinguistics, emphasizing aphasias and healthy individuals. We will introduce recent results understanding how the brain supports language comprehension and production. Students will be equipped with necessary tools to critically evaluate the primary literature. No prior knowledge of brain imaging is necessary.
Prerequisite: PLIC55H3
Breadth Requirement: Social & Behavioural Sciences

PLID01H3 Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for psycholinguistics.
Prerequisite: At least one full credit at the C-level in PLI and permission of the instructor.
PLID02H3  Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for psycholinguistics.
Prerequisite: At least one full credit at the C-level in PLI and permission of the instructor.

PLID03H3  Independent Study in Psycholinguistics
Independent study and research in an area of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Program Supervisor for psycholinguistics.
Prerequisite: At least one full credit at the C-level in PLI and permission of the instructor.

PLID07Y3  Independent Study in Psycholinguistics
A reading and research independent study course on a topic of interest to the student. Students must obtain consent from a supervising instructor before registering. Interested students should contact the Associate Director for further information.
Prerequisite: At least 1.0 credit at the C-level in PLI courses and permission of the Linguistics Associate Director
Exclusion: LIN495Y

PLID34H3  The Psycholinguistics of Reading
An examination of linguistic and psycholinguistic issues pertinent to reading, as well as the role of a language's writing system and orthography in the learning process.
Prerequisite: [LINA01H3 or [FREB44H3 & FREB45H3]] & [PLIC24H3 or (PLIB25H3)]
Exclusion: (LINC34H3), (PLIC34H3)
Breadth Requirement: Natural Sciences

PLID44H3  Acquisition of the Mental Lexicon
An examination of L1 (first language) and L2 (second language) lexical (vocabulary) acquisition. Topics include: the interaction between linguistic and cognitive development; the role of linguistic/non-linguistic input; the developing L2 lexicon and its links with the L1 lexicon; the interface between lexical and syntactic acquisition within psycholinguistic and linguistic frameworks.
Prerequisite: PLIC24H3
Breadth Requirement: Natural Sciences

PLID50H3  Speech Perception
An examination of the acoustics and perception of human speech. We will explore how humans cope with the variation found in the auditory signal, how infants acquire their native language sound categories, the mechanisms underlying speech perception and how the brain encodes and represents speech sounds. An emphasis will be placed on hands-on experience with experimental data analysis.
Prerequisite: PLIC55H3
Exclusion: (PLIC15H3)
Breadth Requirement: Social & Behavioural Sciences

PLID55H3  Disorders of Speech and Language
Pathologies of language acquisition, comprehension and production. Topics include anatomy and physiology, voice disorders, articulation disorders, cleft palate, aphasia, apraxia, dysarthria, language delay, language learning disabilities, developmental delay, and hearing and auditory processing disorders.
Prerequisite: LINB09H3 and [PLIC24H3 or PLIC55H3]
Exclusion: JLS474H
Breadth Requirement: Natural Sciences

PLID56H3  Special Topics in Language Disorders in Children
An in-depth investigation of a particular type of language or communication disorder, for example, impairment due to hearing loss, Down syndrome, or autism. Topics will include: linguistic and non-linguistic differences between children with the disorder and typically-developing children; diagnostic tools and treatments for the disorder; and its genetics and neurobiology.
Prerequisite: PLIC24H3 or PLID55H3
Exclusion: JLS472H
Breadth Requirement: Natural Sciences
Management

Faculty

Faculty List

- P. Aggarwal, B.A., M.B.A. (India), M.B.A., Ph.D. (Chicago), Professor
- S.W. Ahmed, B.Com., M.A. (Sind), M.B.A. (Concordia), Associate Professor, Teaching Stream
- I. Averbakh, M.Sc., Ph.D. (Moscow Institute of Physics & Technology), Professor
- S. Borins, B.A. (Harvard), M.P.P. (Kennedy School of Gov't.), Ph.D. (Harvard), Professor
- C. Bovaird, B.A. (Queen's), M.Sc. (Stirling), M.B.A. (Western), Associate Professor, Teaching Stream
- L. Cen, B.Sc. (Zhejiang), M.Sc. (Warwick), Ph.D. (HKUST), Assistant Professor
- C. Chan, B.A. (Huron), B.A. (Western), M.Sc., Ph.D. (Pennsylvania), Assistant Professor
- D. Chau, B.Com. (Toronto), M.B.A. (McMaster), Ph.D. (HKUST), CPA, CMA., Associate Professor, Teaching Stream
- L. H. Chen, M.S.Ed. (U Penn), M.B.A. (Toronto), Ph.D. (Toronto), FCPA, FCGA., Associate Professor, Teaching Stream
- A.A. Cire, B.Sc., M.Sc.(University of Campinas), M.Sc., Ph.D. (Carnegie Mellon University), Assistant Professor
- B. Connelly, B.A., (Emory), Ph.D. (Minnesota), Associate Professor
- S. L. Daga, B.A. (Waterloo), M. Ed. (Toronto), CPA, CA (CICA) CPA (CPA Canada), Associate Professor, Teaching Stream
- T. Dewan, B.Sc., M.B.A. (Panjab), Ph.D. (Texas), Associate Professor, Teaching Stream
- S. D. Hansen, B.A. (Laurentian), M.A. (Wilfrid Laurier), Ph.D. (Waterloo), Associate Professor
- M. Hasler, B.Sc.(Neuchatel), M.Sc.(Lausanne), Ph.D. (Swiss Finance Institute), Assistant Professor
- J. Heathcote, B.A., M.A., Ph.D. (Western), Associate Professor, Teaching Stream
- M. Khapko, B.A., M.A., Ph.D. (Stockholm School of Economics), Assistant Professor
- D. Kong, B.B.A. (Hawaii), M.B.A. (York), CPA, CMA., Assistant Professor, Teaching Stream
- H. Laurence, B.A. (Amherst), M.A., Ph.D. (McGill), LLB (Osgoode), Associate Professor, Teaching Stream
- N.Li, B.A. (Zhejiang), M.A. (Peking), M.B.A., Ph.D. (Chicago), Assistant Professor
- S. Maglio III, B.A., Stanford University (USA), Ph.D. (New York), Assistant Professor
- J. McCarthy, B.A., M.A., Ph.D. (Western), Associate Professor
- K. McElheran, B.A Albion College (USA), Ph.D. (Northwestern University), Assistant Professor
- V. Quan, B.A.Sc., M.A.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- G. Quan Fun, B.A. (Toronto), M.B.A. (Laurentian), CPA, CA, CMA, CGA., Associate Professor, Teaching Stream
- P. Radhakrishnan, B.A. (Windsor), M.A., Ph.D. (Illinois), Associate Professor, Teaching Stream
- A. Saks, B.A. (Western), M.A.Sc. (Waterloo), Ph.D. (Toronto), Professor
- A. Shah, B.A. (Dartmouth College), PH.D. (Duke University), Assistant Professor
- J. Trougakos, B.S., M.B.A. (Oklahoma State), Ph.D. (Purdue), Associate Professor
- J. Wei, B.Sc. (Harbin Inst. (China)), M.B.A. (York), Ph.D. (Toronto), Professor
- D. Zweig, B.A., M.A.Sc., Ph.D. (Waterloo), Associate Professor

Chair: D. Zweig

The design of the curriculum in Management is guided by our mission statement, which follows:

"The mission of the Department of Management at the University of Toronto Scarborough is to provide our students with the best pre-professional undergraduate management education in Canada. With special emphasis on our co-op model of education, we aim to provide a coherent set of learning experiences that simultaneously teaches management skills and develops the capacity to think analytically about managerial, economic and societal problems and opportunities. Our faculty engages in nationally and internationally recognized research which advances the frontiers of knowledge, serves the interests of our community, and brings new insights to our students. We will improve our students' current and future experiences by building and maintaining close links with private and public sector organizations, by helping students to bridge the gap between education and employment, and by providing a continuing and lively connection among current and former students of the Department."

The University of Toronto Scarborough offers the Bachelor of Business Administration (BBA) degree to students who complete one of the Specialist Programs in Management. We also offer a Co-operative version of the Management Program as well as a non-Co-op Certificate in Business.

Limited enrolment

Because of pressures of demand for places, it has been necessary to place enrolment limits on most Management courses including those given in the summer session, and on admission to Programs. Information on how to apply for admission to a Program and to limited enrolment courses will be available prior to the end of classes in April.
Prerequisites
Students are responsible for ensuring that they have the prerequisites for all Management courses. Students who knowingly or unwittingly register for courses for which they do not have the necessary prerequisites will be denied access to those courses. Students are reminded that an SDF (Standing Deferred) in a course is considered as not meeting the prerequisite for the subsequent course.

Management Programs
The degree offered to management students (Co-op and Non-Co-op) is the BBA - all BBA programs have a Co-op option. Students qualify for the BBA by completing one of the specialist programs in Management. BBA students are not permitted to request either the Major Program in Economics for Management Studies or the Minor Program in Economics for Management Studies.

Admissions
Each year, 400 students are admitted to the Specialist Programs in Management including Co-operative studies. There are three possible ways to be admitted to the Specialist Programs. Students interested in Co-op should also refer to additional application information in the following Co-op Programs section.

1. Directly from Secondary School
Most of the students will be admitted directly from high school on the basis of academic performance. Applicants interested in the Specialist Programs in Management must have completed Grade 12 English and Grade 12 Calculus.

2. At the End of First Year
Students will be considered for admission to the various BBA programs at the end of the winter session of their first year. A second round of admissions takes place at the end of the following summer session. The minimum Cumulative Grade Point Average (CGPA) to guarantee admission to Non-Co-op BBA is calculated annually. For this year, it will not be greater than 3.3. Typically the cut-off for admission to Co-op will be higher than the cut-off for admission to Non-Co-op. Applicants for the Specialist Programs in Management must have completed at least 4.0 credits (none of which can be designated as CR/NCR) at the University of Toronto. Courses completed must include MGTA01H3, MGTA02H3, MGEA02H3, MGEA06H3, MATA32H3, and MATA33H3. MATA32H3 and MATA33H3 are strongly recommended, however MATA30H3/A31H3 and MATA35H3/A36H3/A37H3 may also be used to satisfy the calculus requirement. Decisions will be made when all grades are received. To be considered for admission to the BBA program, a student must request a Management subject post on ROSI. Application for admission will be considered only for the round during which the student has made the subject post request. Please see the online Registrar's Guide for more details.

3. Late Admission
A limited number of places in the BBA will be available to students beyond the two application periods described in section two. Students may apply until they have completed up to 10.0 full credits and admission will be on the basis of all grades received. Students who have completed more than 10.0 full credits will not be considered for admission to the Programs. Since the number of students accepted in this category is very limited, students who are denied admission after first year (in the periods at the end of the winter session and the end of the summer session in first year) are strongly advised to visit the Academic Advising & Career Centre to explore alternative program options.

Guidelines for Course Selection for First-Year Students in Management Programs leading to the BBA

- **Non-Co-op Students directly admitted to the BBA:**
  MGTA05H3, MGEA02H3, MGEA06H3, MATA32H3, MATA33H3, MGAB01H3, MGAB02H3, MGMA01H3 and MGTA35H3.
- **Co-op Students directly admitted to the BBA:**
  MGTA05H3, MGEA02H3, MGEA06H3, MATA32H3, MATA33H3, MGAB01H3, MGAB02H3, MGMA01H3 and MGTA36H3.
- **Students admitted directly into Management and Information Technology leading to the BBA:**
  MGTA05H3, MGEA02H3, MGEA06H3, MGMA01H3 and MGTA35H3 or MGTA36H3 for Co-op students.

Recommended Schedule of courses for Co-op Students in First Summer Session - except Management and International Business (MIB) Students:
MGEB02H3, MGEB06H3, MGEB11H3, MGAB03H3, and MGHB02H3.

Recommended Schedule of courses for MIB Students in First Summer Session.
MGEB02H3, MGEB06H3, MGEB11H3, MGAB03H3, and MGIA01H3.

Grades Required to Remain in Programs
In the first year, students will take the courses required for the Program of their choice (see the following paragraph). For information on the assessment of co-op students, see the Co-operative Programs section of this Calendar. In order to remain in the Program, students who are not in co-op must continue to maintain a CGPA of 2.0 or higher after having attempted at least 4.0 full credits. Students whose CGPA falls below 2.0 will be removed from the program. Students removed from the program for this reason may request re-instatement if they complete at least 2.0 credits (none of which can be designated as CR/NCR) in the following session and raise their CGPA to at least 2.0. This opportunity will be provided only once.

Overall course load limit for BBA students
Students may take a maximum of 3.0 full credits per semester. On occasion, BBA students who have completed at least 12.0 full credits and who have a CGPA of at least 3.5 may be permitted into an additional half-credit course. Requests to add an additional course must be made in writing to the Management Academic Director at mgmtss@utsc.utoronto.ca. This must be done after the wait list period has ended and before the last day to add courses for the session (see the Sessional Dates section of this Calendar). Students must provide an academic rationale for the request and include their name, student number, the course code, and lecture section requested.
Guidelines for Course Selection for Students Admitted to Pre-Program and for Non-Program students who are interested in applying to Management

Read the information sent with your offer of admission. Students must have at least 4.0 full credits from the University of Toronto to apply to Management programs. For BBA consideration, students must enroll in: MGTA01H3, MGTA02H3, MGEA02H3, MGEA06H3, MATA32H3 and MATA33H3. Students are also encouraged to take an elective that fulfills one of the breadth requirements.

Notice to Non Management Program Students

Management courses are restricted to students in the Management Programs. Non Management Program students can only enroll in MGTA01H3 and MGTA02H3.

UTSC Management courses are not open to students from other campuses. Similarly, St. George Commerce courses and UTM Management courses are not open to UTSC students.

Breadth & Depth Within the Degree

UTSC degree students who first took courses in the 2010 summer session or in a subsequent session must fulfill breadth and depth requirements in order to graduate. (See the "Degrees" section of this Calendar for the full degree requirements.)

1. Depth: A minimum of 6.0 full credits must be taken at the C and/or D-Level. Of these, a minimum of 1.0 full credit must be at the D-level. Students may use any C and D-level courses to fulfill this requirement, regardless of whether or not the courses are also used for Program Requirements.

2. Breadth: A half-credit from each of the following categories must be taken. Program Requirements and Electives may be used to fulfill any breadth requirement listed below:
   a. Arts, Literature & Language
   b. History, Philosophy & Cultural Studies
   c. Social & Behavioural Sciences
   d. Natural Sciences
   e. Quantitative Reasoning

CO-OPERATIVE PROGRAMS IN MANAGEMENT

Program Director: C. Arsenault  E-mail: mgmtcoop@utsc.utoronto.ca
Academic Director: S. Ahmed  E-mail: mgmtss@utsc.utoronto.ca

The Management Co-operative Program is an enriched program which combines academic studies with work experience in public and private enterprises. Depending on their needs and abilities students work in areas such as accounting, public administration, auditing, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship. For information about admission, work placements and standing in the Program, please see the Co-operative Programs section of this Calendar.

Full Year/Trimester Programming

The Management Co-op Program operates on a trimester schedule, featuring three terms (fall, winter and summer) in each calendar year. Students work or study in all three terms for four years, or until graduation requirements are met. The Program requires eight four-month terms of study and three four-month work terms. Students normally begin with three to five study terms (fall, winter and summer), then alternate study and work terms. Students always conclude their degree with a study term.

Program Requirements Curriculum

Co-op students follow the course requirements of one of the specialist programs described later in this section. In addition, all co-op students must take MGTA36H3 prior to commencement of their first work term. In the first two years of study most students will follow a common core curriculum of studies (please refer to the detailed requirements in the Management Programs). Students are advised to consult regularly with the Academic Director, or the Program Advisor, if they have questions regarding course selection and scheduling. It is however the students’ individual responsibility to ensure that they have completed the correct courses to make them eligible for each work term and that they have correctly completed Program and degree requirements for graduation.

Work Terms

To compete for a work term a student must be in good standing in the Program and must have completed:

- For the first work term: 7.0 full credits, including, MATA32H3, MATA33H3, [MGTA05H3 or [MGTA01H3 and MGTA02H3]], MGEA02H3, MGEA06H3, MGAB01H3, MGAB02H3, MGTA36H3, the appropriate Mathematics courses, and the Management Co-op Work Term Preparation Course (WTPC): COPD07Y3 or COPD08Y3.
- For the second work term: 9.0 full credits
- For the third work term: 11.0 full credits

Nomenclature Change

The Department of Management has changed its MGT nomenclature. Consult the table below for course equivalencies if you joined the UTSC Management program prior to 2013.
<table>
<thead>
<tr>
<th>Old Course Code</th>
<th>New Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>MGTA03H3</td>
<td>MGTA01H3</td>
<td>Introduction to Business</td>
</tr>
<tr>
<td>MGTA04H3</td>
<td>MGTA02H3</td>
<td>Managing the Business Organization</td>
</tr>
<tr>
<td>MGTB03H3</td>
<td>MGAB03H3</td>
<td>Introductory Management Accounting</td>
</tr>
<tr>
<td>MGTB04H3</td>
<td>MGMA01H3</td>
<td>Principles of Marketing</td>
</tr>
<tr>
<td>MGTB05H3</td>
<td>MGAB01H3</td>
<td>Introductory Financial Accounting I</td>
</tr>
<tr>
<td>MGTB06H3</td>
<td>MGAB02H3</td>
<td>Introductory Financial Accounting II</td>
</tr>
<tr>
<td>MGTB07H3</td>
<td>MGIAB01H3</td>
<td>Principles of International Marketing</td>
</tr>
<tr>
<td>MGTB09H3</td>
<td>MGFB10H3</td>
<td>Principles of Finance</td>
</tr>
<tr>
<td>MGTB22H3</td>
<td>MGIAB12H3</td>
<td>International Human Resources</td>
</tr>
<tr>
<td>MGTB023H3</td>
<td>N/A</td>
<td>Managing People in Organizations</td>
</tr>
<tr>
<td>MGTB25H3</td>
<td>MGIAB02H3</td>
<td>International Organizational Behaviour</td>
</tr>
<tr>
<td>MGTB27Y3</td>
<td>N/A</td>
<td>Managing in Organizations</td>
</tr>
<tr>
<td>MGTB29H3</td>
<td>N/A</td>
<td>Managing Groups and Organizations</td>
</tr>
<tr>
<td>MGTB90H3</td>
<td>N/A</td>
<td>Business Communication Skills</td>
</tr>
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</table>

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<tr>
<td>MGTC05H3</td>
<td>MGMB01H3</td>
<td>Marketing Management</td>
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<tr>
<td>MGTC06H3</td>
<td>MGAC03H3</td>
<td>Intermediate Management Accounting</td>
</tr>
<tr>
<td>MGTC07H3</td>
<td>MGAC01H3</td>
<td>Intermediate Financial Accounting I</td>
</tr>
<tr>
<td>MGTC08H3</td>
<td>MGAC02H3</td>
<td>Intermediate Financial Accounting II</td>
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<td>MGFC10H3</td>
<td>Intermediate Finance</td>
</tr>
<tr>
<td>MGTC11H3</td>
<td>MGAC70H3</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>MGTC12H3</td>
<td>MGMC12H3</td>
<td>Advertising: From Theory to Practice</td>
</tr>
<tr>
<td>MGTC13H3</td>
<td>MGMC13H3</td>
<td>Pricing Strategy</td>
</tr>
<tr>
<td>MGTC14H3</td>
<td>MGMC14H3</td>
<td>Sales and Distribution Management</td>
</tr>
<tr>
<td>MGTC16H3</td>
<td>MGAC50H3</td>
<td>Canadian Income Taxation I</td>
</tr>
<tr>
<td>MGTC17H3</td>
<td>MGAD65H3</td>
<td>Canadian Income Taxation II</td>
</tr>
<tr>
<td>MGTC19H3</td>
<td>MGSC20H3</td>
<td>Consulting and Contracting: New Ways of Work</td>
</tr>
<tr>
<td>MGTC20H3</td>
<td>MGMD02H3</td>
<td>Judgement and Decision Making</td>
</tr>
<tr>
<td>MGTC21H3</td>
<td>MGMC11H3</td>
<td>Product Management and Branding</td>
</tr>
<tr>
<td>MGTC22H3</td>
<td>MGHB12H3</td>
<td>Human Resource Management</td>
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</table>
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<tbody>
<tr>
<td>MGTC23H3</td>
<td>MGHC23H3</td>
<td>Diversity in the Workplace</td>
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<td>MGTC31H3</td>
<td>MGSC30H3</td>
<td>The Legal Environment of Business I</td>
</tr>
<tr>
<td>MGTC32H3</td>
<td>MGSC32H3</td>
<td>The Legal Environment of Business II</td>
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<tr>
<td>MGTC33H3</td>
<td>MGMC30H3</td>
<td>Event and Sponsorship Management</td>
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<tr>
<td>MGTC34H3</td>
<td>MGAD80H3</td>
<td>Accounting Issues in International Business</td>
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<tr>
<td>MGTC35H3</td>
<td>MGSC12H3</td>
<td>Narrative and Management</td>
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<tr>
<td>MGTC36H3</td>
<td>MGTA36H3</td>
<td>Management Communications for Co-op</td>
</tr>
<tr>
<td>MGTC37H3</td>
<td>MGSC07H3</td>
<td>Introduction to Case Analysis Techniques</td>
</tr>
<tr>
<td>MGTC38H3</td>
<td>MGSB22H3</td>
<td>Entrepreneurship</td>
</tr>
<tr>
<td>MGTC39H3</td>
<td>MGSD24H3</td>
<td>New Venture Creation and Planning</td>
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<tr>
<td>MGTC41H3</td>
<td>MGSC01H3</td>
<td>Corporate Strategy</td>
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<tr>
<td>MGTC42H3</td>
<td>MGSC03H3</td>
<td>Public Management</td>
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<tr>
<td>MGTC44H3</td>
<td>MGSC44H3</td>
<td>International Business Management</td>
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<tr>
<td>MGTC45H3</td>
<td>MGSC05H3</td>
<td>The Changing World of Business-Government Relations</td>
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<tr>
<td>MGTC46H3</td>
<td>MGSC46H3</td>
<td>Managerial Perspectives in a Global Economy</td>
</tr>
<tr>
<td>MGTC52H3</td>
<td>MGHC52H3</td>
<td>Business Negotiation</td>
</tr>
<tr>
<td>MGTC53H3</td>
<td>MGHC53H3</td>
<td>Introduction to Industrial Relations</td>
</tr>
<tr>
<td>MGTC55H3</td>
<td>N/A</td>
<td>Planning and Budgeting for Public Institutions</td>
</tr>
<tr>
<td>MGTC56H3</td>
<td>N/A</td>
<td>Educational Finance and Economics</td>
</tr>
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<td>MGTC59H3</td>
<td>MGSC14H3</td>
<td>Management Ethics</td>
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<td>MGTC70H3</td>
<td>MGFC20H3</td>
<td>Personal Financial Management</td>
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<td>MGTC71H3</td>
<td>MGFC30H3</td>
<td>Introduction to Derivatives Markets</td>
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<td>MGTC74H3</td>
<td>MGOC10H3</td>
<td>Analysis for Decision-Making</td>
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<td>MGTC75H3</td>
<td>MGOC20H3</td>
<td>Operations Management: A Mathematical Approach</td>
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<td>MGTC76H3</td>
<td>MGFC50H3</td>
<td>International Financial Management</td>
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<td>MGTC77H3</td>
<td>MGFC60H3</td>
<td>Financial Statement Analysis and Security Valuation</td>
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<td>MGTC90H3</td>
<td>MGHC02H3</td>
<td>Management Skills</td>
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<tr>
<td>MGTC91H3</td>
<td>MGIC02H3</td>
<td>International Leadership Skills</td>
</tr>
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<tr>
<td>MGTD01H3</td>
<td>MGIC14H3</td>
<td>International Business Ethics</td>
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<tr>
<td>MGTD06H3</td>
<td>MGMC20H3</td>
<td>Marketing in the Information Age</td>
</tr>
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<td>MGTD07H3</td>
<td>MGMC01H3</td>
<td>Market Research</td>
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<tr>
<td>MGTD13H3</td>
<td>MGMC02H3</td>
<td>Consumer Behaviour</td>
</tr>
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<td>MGTD14H3</td>
<td>MGHD14H3</td>
<td>Leadership</td>
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<tr>
<td>MGTD15H3</td>
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<td>Commercial Dispute Resolution</td>
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<td>MGTD19H3</td>
<td>MGIB01H3</td>
<td>Global Marketing</td>
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<tr>
<td>MGTD21H3</td>
<td>MGID40H3</td>
<td>Introduction to International Business Law</td>
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<tr>
<td>MGTD24H3</td>
<td>MGHD24H3</td>
<td>Occupational Health and Safety Management</td>
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<tr>
<td>MGTD25H3</td>
<td>MGHD25H3</td>
<td>Human Resources Recruitment and Selection</td>
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<td>MGTD26H3</td>
<td>MGHD26H3</td>
<td>Training and Development</td>
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<td>MGTD27H3</td>
<td>MGHD27H3</td>
<td>Human Resources Planning and Strategy</td>
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<tr>
<td>MGTD28H3</td>
<td>MGHD28H3</td>
<td>Compensation</td>
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<td>MGTD30H3</td>
<td>MGMD01H3</td>
<td>Applied Marketing Models</td>
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<tr>
<td>MGTD40H3</td>
<td>MGSD10H3</td>
<td>Knowledge Management</td>
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<td>MGTD45H3</td>
<td>MGSD30H3</td>
<td>Intellectual Property Law</td>
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<tr>
<td>MGTD47H3</td>
<td>MGSD01H3</td>
<td>Senior Seminar in Strategic Management</td>
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<tr>
<td>MGTD48H3</td>
<td>MGIC01H3</td>
<td>International Corporate Strategy</td>
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<tr>
<td>MGTD50H3</td>
<td>MGAD50H3</td>
<td>Advanced Financial Accounting</td>
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<td>MGTD54H3</td>
<td>MGAD40H3</td>
<td>Management Control Systems</td>
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<td>MGTD55H3</td>
<td>MGAD60H3</td>
<td>Controversial Issues in Accounting</td>
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<td>MGTD56H3</td>
<td>MGAD70H3</td>
<td>Advanced Accounting Case Analysis: A Capstone Course</td>
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<td>MGTD60H3</td>
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<td>Auditing</td>
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<td>MGTD61H3</td>
<td>MGAD20H3</td>
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<td>MGTD71H3</td>
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<td>Advanced Financial Management</td>
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<td>MGTD72H3</td>
<td>MGFD50H3</td>
<td>Mergers and Acquisitions: Theory and Practice</td>
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<td>MGTD73H3</td>
<td>MGFD40H3</td>
<td>Investor Psychology and Behavioural Finance</td>
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<td>MGTD75H3</td>
<td>MGFD10H3</td>
<td>Investments</td>
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<td>MGTD77H3</td>
<td>MGFD60H3</td>
<td>Financial Modelling and Trading Strategies</td>
</tr>
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<td>MGTD78H3</td>
<td>MGFD30H3</td>
<td>Risk Management</td>
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<tr>
<td>MGTD79H3</td>
<td>MGID79H3</td>
<td>International Capstone Case Analysis</td>
</tr>
</tbody>
</table>
Management Programs

SPECIALIST PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: Iris Au Email: ecoss@utsc.utoronto.ca

This program will provide a specialization for those wishing for a substantial component of Economics in a Management degree leading to a B.B.A. The program which has a co-op option combines academic studies in economics and management with work experience in public and private enterprises. It is designed to allow students to learn practical skills of data analysis and to combine them with the interpretive skills given by knowledge of economic theory. For information on work terms please see the Co-operative Programs section of this Calendar.

Program Requirements

The Specialist Program in Economics for Management Studies requires the completion of 17.0 to 18.0 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. 8.5 full credits in Economics for Management Studies:
   - MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
   - MGBE02H3/(ECMB02H3) Price Theory: A Mathematical Approach
   - MGBE06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
   - MGBE11H3/(ECMB11H3) Quantitative Methods in Economics I
   - MGBE12H3/(ECMB12H3) Quantitative Methods in Economics II
   - MGEC02H3/(ECMC02H3) Topics in Price Theory
   - MGEC06H3/(ECMC06H3) Topics in Macroeconomics Theory
   - MGEC11H3/(ECMC11H3) Introduction to Regression Analysis
   - MGED02H3/(ECMD13H3) Advanced Microeconomic Theory
   - MGED06H3/(ECMD14H3) Advanced Macroeconomic Theory
   - MGED11H3/(ECMD10H3) Theory and Practice of Regression Analysis
   - MGED50H3/(ECMD50H3) Workshop in Economic Research, and
   - two additional full credits in Economics for Management Studies including at least one at the C-level [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)].

2. (1.0 credit):
   - [MATA32H3 and MATA33H3] strongly recommended, or
   - [MATA30H3/A31H3 and MATA35H3/A36H3/A37H3].

3. (7.0 to 8.0 credits, depending on the combination of courses completed):
   - MGMA01H3/(MGTB04H3) Principles of Marketing
   - MGTA05H3 Foundations of Business Management or [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)]
     - [MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
   - MGAB01H3/(MGTB05H3) Introductory Financial Accounting I
   - MGAB02H3/(MGTB06H3) Introductory Financial Accounting II
   - MGAB03H3/(MGTB09H3) Introductory Management Accounting
   - MGFB10H3/(MGTC09H3) Principles of Finance
     - [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MTB27Y3)]
   - MGHB12H3/(MGTC22H3) Human Resource Management
   - MGMB01H3/(MGTC05H3) Marketing Management
   - MGFC10H3/(MGTC09H3) Intermediate Finance
   - MGHC02H3/(MGTC90H3) Management Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision Making
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach
4. At least 0.5 credit of courses emphasizing strategic management, chosen from:
MGSC01H3/(MGTC41H3) Corporate Strategy
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
MGSC12H3/(MGTC35H3) Narrative and Management
MGSC14H3/(MGTC59H3) Management Ethics
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship
MGSC30H3/(MGTC31H3) The Legal Environment of Business

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST PROGRAM IN MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed  E-mail: mgmtss@utsc.utoronto.ca

This program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics. It also includes a Co-operative option. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements

This program requires the completion of 13.5 to 14.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):
   - MGMA01H3/(MGTB04H3) Principles of Marketing
   - MGTA05H3 Foundations of Business Management or [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)]
   - MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)
   - MGAB01H3/(MGTC05H3) Introductory Financial Accounting
   - MGAB02H3/(MGTC06H3) Introductory Financial Accounting II
   - MGAB03H3/(MGTC09H3) Introductory Management Accounting
   - MGBF10H3/(MGTC39H3) Principles of Finance
   - MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
   - MGHB12H3/(MGTC22H3) Human Resource Management
   - MGMB01H3/(MGTC05H3) Marketing Management
   - MGFC10H3/(MGTC09H3) Intermediate Finance
   - MGHC02H3/(MGTC90H3) Management Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision Making
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):
   - [MATA32H3 and MATA33H3] strongly recommended, or
   - [MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:
   - MGSC01H3/(MGTC41H3) Corporate Strategy
   - MGSC03H3/(MGTC42H3) Public Management
   - MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
   - MGSC12H3/(MGTC35H3) Narrative and Management
   - MGSC14H3/(MGTC59H3) Management Ethics
   - MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
   - MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship
   - MGSC30H3/(MGTC31H3) The Legal Environment of Business

4. (4.0 credits):
   - MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
   - MGBE02H3/(ECMB02H3) Price Theory: A Mathematical Approach
   - MGBE06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
   - MGBE11H3/(ECMB11H3) Quantitative Methods in Economics I
   - MGBE12H3/(ECMB12H3) Quantitative Methods in Economics II
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

5. 1.0 credit of D-level Management or Economic courses.

**NOTE:** In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

**SPECIALIST PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION)**

*Academic Director: S. Ahmed  Email: mgmtss@utsc.utoronto.ca*

The Accounting Specialist program also has a Co-op option and is designed for the student who is interested in acquiring a concentrated core of accounting and related knowledge that is required to become a professional accountant. It provides a solid foundation to prepare students to become Chartered Professional Accountants after graduation. In addition, the Specialist program provides students with the personal and professional attributes necessary to build a successful career in senior management.

The Accounting Specialist program encompasses topics such as introductory to advanced financial and managerial accounting, assurance, taxation, economics, and finance. There is also a range of more advanced electives which cover topics and competencies that incorporate critical thinking and ethical decision making.

**Program Requirements**

The Program requires the completion of 16.5 to 17.5 credits as part of a twenty-credit B.B.A. degree.

**Note:** A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):
   - MGM01H3/(MGTB04H3) Principles of Marketing
   - MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
   - MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)
   - MGAB01H3/(MGTB05H3) Introductory Financial Accounting I
   - MGAB02H3/(MGTB06H3) Introductory Financial Accounting II
   - MGAB03H3/(MGTB03H3) Introductory Management Accounting
   - MGFB10H3/(MGTB09H3) Principles of Finance
   - MGH02H3 Managing People and Groups in Organizations or [(MGTB23H3 and (MGTB29H3)] or (MGTB27Y3)]
   - MGB21H3/(MGTC22H3) Human Resource Management
   - MMB01H3/(MGTC05H3) Marketing Management
   - MGC10H3/(MGTC09H3) Intermediate Finance
   - MGH02H3/(MGTC90H3) Management Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision Making
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):
   - [MGSC02H3 and MGSC33H3] strongly recommended, or
   - [MGEA02H3 and MGEA09H3]

3. (4.0 credits):
   - MGEA06H3/(ECMA06H3) Introduction to Microeconomics: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Price Theory: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Macroeconomic Theory and Policy: A Mathematical Approach
   - MGEA11H3/(MGTC11H3) Quantitative Methods in Economics I
   - MGEA12H3/(MGTC12H3) Quantitative Methods in Economics II and
   - 1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

4. (4.0 credits):
   - MGAC01H3/(MGTC07H3) Intermediate Financial Accounting I
   - MGAC02H3/(MGTC08H3) Intermediate Financial Accounting II
   - MGAC03H3/(MGTC09H3) Intermediate Management Accounting
   - MGC30H3/(MGTC31H3) The Legal Environment of Business I
   - MGAC50H3/(MGTC16H3) Canadian Income Taxation I
   - MGAC70H3/(MGTC11H3) Management Information Systems
5. At least one D-level course (0.5 credit) from:

- MGAD20H3/(MGTD61H3) Advanced Auditing
- MGAD40H3/(MGTD54H3) Management Control Systems
- MGAD45H3/(MGSC40H3) Corporate Governance and Strategy: CPA Perspective
- MGAD50H3/(MGTD50H3) Advanced Financial Accounting
- [MGAD65H3 or (MGAC60H3)/(MGTC17H3) Canadian Income Taxation II]

NOTES:

1. In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

2. The Chartered Professional Accountancy (CPA) requirements:


   Students are strongly advised to refer to the CPA Ontario website. This website will have the designation's specified minimum grade and the updated program requirements. It is imperative that students check the following link regularly for current information:

   http://www.cpaontario.ca/Students/CPAcertification/PreReqEdu/1014page18269.aspx

SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed  
Email: mgmtss@utsc.utoronto.ca

This Program also has a co-op option and builds on the core of the Specialist in Management Program and offers a deeper and wider coverage of Finance topics. The Program courses will equip students with a comprehensive understanding of financial issues and concepts, and with a firm mastery of methodologies and problem solving skills required in modern-day finance.

Program Requirements

The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):

   - MGMA01H3/(MGTB05H3) Principles of Marketing
   - MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
   - [MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
   - MGAB01H3/(MGTB05H3) Introductory Financial Accounting I
   - MGAB02H3/(MGTB06H3) Introductory Financial Accounting II
   - MGAB03H3/(MGTB03H3) Introductory Management Accounting
   - MGFB10H3/(MGTB09H3) Principles of Finance
   - [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
   - MGHB12H3/(MGTC22H3) Human Resource Management
   - MGMB01H3/(MGTC05H3) Marketing Management
   - MGFC10H3/(MGTC09H3) Intermediate Finance
   - MGHC02H3/(MGTC90H3) Management Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision Making
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):

   [MATA32H3 and MATA33H3] strongly recommended, or
   [MATA30H3/A31H3 and MATA35H3/A36H/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:

   - MGSC01H3/(MGTC41H3) Corporate Strategy
   - MGSC03H3/(MGTC42H3) Public Management
   - MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
   - MGSC12H3/(MGTC35H3) Narrative and Management
   - MGSC14H3/(MGTC59H3) Management Ethics
   - MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
Management

MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship
MGSC30H3/(MGTC31H3) The Legal Environment of Business

4. (4.0 credits):
MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
MGB02H3/(ECMB02H3) Price Theory: A Mathematical Approach
MGB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
MGB11H3/(ECMB11H3) Quantitative Methods in Economics I
MGB12H3/(ECMB12H3) Quantitative Methods in Economics II and
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

5. (1.0 credit):
MGFC30H3/(MGTC71H3) Introduction to Derivative Markets
MGFD10H3/(MGTD75H3) Investments

6. At least 2.0 full credits from:
MGEC71H3/(ECMC48H3) Money and Banking
MGFC20H3/(MGTC70H3) Personal Financial Management
MGFC50H3/(MGTC76H3) International Financial Management
MGFC60H3/(MGTC77H3) Financial Statement Analysis & Security Valuation
MGFD15H3 Special Topics in Finance: Private Equity
MGFD30H3/(MGTD78H3) Risk Management
MGFD40H3/(MGTD73H3) Investor Psychology & Behavioural Finance
MGFD50H3/(MGTD72H3) Mergers & Acquisitions: Theory & Practice
MGFD60H3/(MGTD77H3) Financial Modelling & Trading Strategies
MGFD70H3/(MGTD71H3) Advanced Financial Management

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST PROGRAM IN MANAGEMENT AND HUMAN RESOURCES (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca
This Program also has a co-op option and is designed to give students a broad exposure to all functional areas of Management as well as specialization in the area of Human Resource Management (HRM). HRM is an area that encompasses topics such as recruitment and selection, performance management, compensation, and industrial relations. By taking a B.B.A. with a specialist in HRM, you will be qualified to work in any area of Human Resource Management, to take a graduate degree in HRM (potentially with advance standing), and you will be well prepared for the CHRP certification exam required by many organizations for upper-level HR positions. In order to qualify for CHRP certification, you must maintain an average of at least 70% across the 9 courses required by CHRP and at least 65% in each of those 9 courses.

By completing this Specialist Program in Management and Human Resources, you will cover the nine required CHRP courses.

Program Requirements
The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):
MGMA01H3/(MGTB04H3) Principles of Marketing
MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
MGBA01H3/(MGTC05H3) Introductory Financial Accounting I
MGBA02H3/(MGTC06H3) Introductory Financial Accounting II
MGBA03H3/(MGTC08H3) Introductory Management Accounting
MGFB10H3/(MGTC90H3) Principles of Finance
MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
MGHB12H3/(MGTC22H3) Human Resource Management
MGMB01H3/(MGTC05H3) Marketing Management
MGFC10H3/(MGTC09H3) Intermediate Finance
MGHC02H3/(MGTC90H3) Management Skills
MGOC10H3/(MGTC74H3) Analysis for Decision Making

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MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):
[MATA32H3 and MATA33H3] strongly recommended, or
[MATA30H3/A31H3 and MATA35H3/A36H/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:
MGSC01H3/(MGTC41H3) Corporate Strategy
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
MGSC12H3/(MGTC35H3) Narrative and Management
MGSC14H3/(MGTC59H3) Management Ethics
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSB22H3/(MGSC22H3/MGTC38H3) Entrepreneurship
MGSC30H3/(MGTC31H3) The Legal Environment of Business I

4. (4.0 credits):
MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach
MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

5. (3.0 credits):
MGHC53H3/(MGTC53H3) Introduction to Industrial Relations
MGHD24H3/(MGTD24H3) Occupational Health and Safety Management
MGHD25H3/(MGTD25H3) Human Resources Recruitment & Selection
MGHD26H3/(MGTD26H3) Training and Development
MGHD27H3/(MGTD27H3) Human Resources Planning and Strategy
MGHD28H3/(MGTD28H3) Compensation

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca

This program also has a co-op option and is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science. Please see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements
The Program requires the completion of 18.5 to 19.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):
MGMA01H3/(MGTB04H3) Principles of Marketing
MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
[MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
MGAB01H3/(MGTB05H3) Introductory Financial Accounting I
MGAB02H3/(MGTB06H3) Introductory Financial Accounting II
MGAB03H3/(MGTB09H3) Introductory Management Accounting
MGFB10H3/(MGTB09H3) Principles of Finance
[MGBH02H3 Managing People and Groups in Organizations or [(MGTB23H3 and (MGTB29H3)) or (MGTB27Y3)]
MGHB12H3/(MGTC22H3) Human Resource Management
MGMB01H3/(MGTC05H3) Marketing Management
MGFC10H3/(MGTC09H3) Intermediate Finance
Management

MGHC02H3/(MGTC90H3) Management Skills
MGOC10H3/(MGTC74H3) Analysis for Decision Making
MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):
[MATA32H3 and MATA33H3], strongly recommended or
[MATA30H3/A31H3 and MATA35H3/A36H/A37H3]

3. (5.0 credits):
CSCA08H3 Introduction to Computer Science I
CSCA48H3 Introduction to Computer Science II
CSCA67H3 Discrete Mathematics
CSCB07H3 Software Design
CSCB09H3 Software Tools and Systems Software
CSCB20H3 Introduction to Databases and Web Applications
CSCB36H3 Introduction to the Theory of Computation
CSCC01H3 Introduction to Software Engineering
MATA23H3 Linear Algebra I
MATB24H3 Linear Algebra II

4. (4.0 credits):
MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
MGBE02H3/(ECMB02H3) Price Theory: A Mathematical Approach
MGBE06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
MGBE11H3/(ECMB11H3) Quantitative Methods in Economics I
MGBE12H3/(ECMB12H3) Quantitative Methods in Economics II and
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

5. (0.5 credit):
[CSCD03H3 Social Impact of Information Technology or MGSC14H3/(MGTC59H3) Management Ethics]

6. 1.0 credits at the D-level in Management, Economics or CSC courses.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed  E-mail: mgmtss@utsc.utoronto.ca

The Specialist Program in Management and Marketing also has a Co-op option and gives students the perspective of the overall organization and beyond. In addition to the company focus, Marketing also ensures that students take an external orientation by having an in-depth understanding of the competition and the consumer. While developing a good understanding of all the issues involved in developing marketing strategy, the student will learn to implement the tools of marketing tactics.

Program Requirements
The Program requires the completion of 15.5 to 16.5 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. (7.0 to 8.0 credits, depending on the combination of courses completed):
MGMA01H3/(MGTB04H3) Principles of Marketing
MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
[MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
MGBA01H3/(MGTB05H3) Introductory Financial Accounting I
MGBA02H3/(MGTB06H3) Introductory Financial Accounting II
MGBA03H3/(MGTB03H3) Introductory Management Accounting
MGFB10H3/(MGTB09H3) Principles of Finance
[MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
MGHB12H3/(MGTC22H3) Human Resource Management
MGMB01H3/(MGTC05H3) Marketing Management
MGFC10H3/(MGTC09H3) Intermediate Finance
MGHC02H3/(MGTC90H3) Management Skills
MGOC10H3/(MGTC74H3) Analysis for Decision Making
MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach

2. (1.0 credit):
[MATA32H3 and MATA33H3] strongly recommended, or
[MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]

3. At least 0.5 credit of courses emphasizing strategic management, chosen from:
MGSC01H3/(MGTC41H3) Corporate Strategy
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
MGSC12H3/(MGTC35H3) Narrative and Management
MGSC14H3/(MGTC59H3) Management Ethics
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSC22H3/(MGSC22H3/MGTC38H3) Entrepreneurship
MGSC30H3/(MGTC31H3) The Legal Environment of Business I

4. (4.0 credits):
MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
MGEB02H3/(ECMB02H3) Price Theory: A Mathematical Approach
MGEB06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II and
1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)].

5. 6 of the following courses (3.0 credits):
MGMC01H3/(MGTD07H3) Market Research
MGMC02H3/(MGTD13H3) Consumer Behaviour
MGMC11H3/(MGTC21H3) Product Management and Branding
MGMC12H3/(MGTC12H3) Advertising: From Theory to Practice
MGMC13H3/(MGTC13H3) Pricing Strategy
MGMC14H3/(MGTC14H3) Sales and Distribution Management
MGMD01H3/(MGTD30H3) Applied Marketing Models
MGMD02H3/(MGTC20H3) Judgement and Decision Making
MGMD10H3 Special Topics in Marketing I
MGMD11H3 Special Topics in Marketing II

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST PROGRAM IN STRATEGIC MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca

This Program has two streams:

The Management Strategy stream is designed to give students a broad exposure to all functional areas of Management, as well as a solid grounding in Strategic Management, while providing a variety of elective courses to appeal to students interested in any one of the three sectors. It covers the direction and coordination of private sector, public sector, or non-profit sector organizations.

The Entrepreneurship stream is designed to provide students with the tools to work in a variety of self-employment or entrepreneur career paths, which include working in family businesses, start-ups, or as consultants. The program will allow for significant training of entrepreneurial skills and non-entrepreneurial skills.

Both streams have a non-co-op and a co-op component. Co-op students should see the section regarding work term requirements for specific details on courses required before each work term.

Program Requirements
To complete the program, a student must meet the course requirements described below. The program requirements comprise a core of 12.5 to 13.5 credits common to both streams, and additional requirements which depend on the stream for a total of 15.0 to 16.0 credits for the Management
Management

Strategy stream and 16.0 to 17.0 credits for the Entrepreneurship stream.

**Note:** A single course may only be used once to fulfill one of the following requirements:

**Core (12.5 to 13.5 credits):**

1. **(7.5 to 8.5 credits, depending on the combination of courses completed):**
   - MGMA01H3/(MGTB04H3) Principles of Marketing
   - MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
   - [MGTA35H3 Management Communications for non Co-op or MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
   - MGAB01H3/(MGTB05H3) Introductory Financial Accounting I
   - MGAB02H3/(MGTB06H3) Introductory Financial Accounting II
   - MGAB03H3/(MGTB03H3) Introductory Management Accounting
   - MGFB10H3/(MGTB09H3) Principles of Finance
   - [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
   - MGHB12H3/(MGTC22H3) Human Resource Management
   - MGMB01H3/(MGTC05H3) Marketing Management
   - MGFC10H3/(MGTC09H3) Intermediate Finance
   - MGHC02H3/(MGTC90H3) Management Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision Making
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach
   - One additional half-credit (0.5) at the D-level in either Management or Economics for Management Studies courses

2. **(1.0 credit):**
   - [MATA32H3 and MATA33H3] strongly recommended, or
   - [MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]

3. **(4.0 credits):**
   - MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
   - MGEA06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
   - MGBE02H3/(ECMB02H3) Price Theory: A Mathematical Approach
   - MGBE06H3/(ECMB06H3) Macroeconomic Theory and Policy: A Mathematical Approach
   - MGBE11H3/(ECMB11H3) Quantitative Methods in Economics I
   - MGBE12H3/(ECMB12H3) Quantitative Methods in Economics II, and
   - 1 full credit of C-level Economics for Management Studies courses [excluding MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]

**Management Strategy Stream (2.5 credits):**

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:
   - MGSB22H3/(MGTC38H3) Entrepreneurship
   - MGSC12H3/(MGTC35H3) Narrative and Management
   - MGSC14H3/(MGTC59H3) Management Ethics
   - MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
   - MGSC30H3/(MGTC31H3) The Legal Environment of Business I
   - MGSD24H3/(MGTC39H3) New Venture Creation and Planning

5. **1.0 credit from:**
   - MGSC01H3/(MGTC41H3) Corporate Strategy
   - MGSC03H3/(MGTC42H3) Public Management, or
   - MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations

6. **0.5 credit from:**
   - MGEB32H3/(ECMB36H3) Economics Aspects of Public Policy
   - MGEC31H3/(ECMC31H3) Economics of the Public Sector: Taxation
   - MGEC32H3/(ECMC32H3) Economics of the Public Sector: Expenditures
   - MGED43H3/(ECMC43H3) Organization Strategies
   - MGMC30H3/(MGTC33H3) Event and Sponsorship Management
   - MGSB22H3/(MGTC38H3) Entrepreneurship
   - MGSC01H3/(MGTC41H3) Corporate Strategy
   - MGSC03H3/(MGTC42H3) Public Management
   - MGSC05H3/(MGTC45H3) The Changing World of Business-Government Relations
   - MGSC12H3/(MGTC35H3) Narrative and Management
   - MGSC14H3/(MGTC59H3) Management Ethics
MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
MGSC30H3/(MGTC31H3) The Legal Environment of Business I
MGSC32H3/(MGTC32H3) The Legal Environment of Business II
MGSD24H3/(MGTC39H3) New Venture Creation and Planning
MGTC55H3 Planning & Budgeting for Public Institutions
MGTC56H3 Educational Finance & Economics
MGAD40H3/(MGTD54H3) Management Control Systems
MGSD10H3/(MGTD40H3) Knowledge Management
MGSD30H3/(MGTD45H3) Intellectual Property Law
PPGC66H3 Public Policy Making

7. (0.5 credit):
MGSD01H3/(MGTD47H3) Senior Seminar in Strategic Management

Entrepreneurship Stream (3.5 credits):

4. At least 0.5 credit of courses emphasizing strategic management, chosen from:
   MGSC12H3/(MGTC35H3) Narratives on Management and Organization
   MGSC14H3/(MGTC59H3) Management Ethics
   MGSC30H3/(MGTC31H3) The Legal Environment of Business I

5. (3.0 credits):
   MGFC20H3/(MGTC70H3) Personal Financial Management
   MGHC52H3/(MGTC52H3) Business Negotiation
   MGSB22H3/(MGTC38H3) Entrepreneurship
   MGSC20H3/(MGTC19H3) Consulting and Contracting: New Ways of Work
   MGSC26H3 Venture Capital
   MGSD24H3/(MGTC39H3) New Venture Creation and Planning

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

SPECIALIST CO-OPERATIVE PROGRAM IN MANAGEMENT AND INTERNATIONAL BUSINESS (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: Hugh Laurence Email: mibss@utsc.utoronto.ca

The Specialist in Management and International Business (MIB) is an exclusive co-op program that is designed to give students a broad exposure to all functional areas of Management while providing a unique understanding of the business world in a global context. Academically, the program requires a language development component and a number of specially designed courses emphasizing international business. Through the high-level curricular programming as well as the practical experiences abroad, students will experience an emphasis on cross-cultural communications and leadership, while simultaneously maintaining a quantitative and analytical focus. Students will also have the opportunity to maintain a more general academic approach, or use their electives to focus in on a specific discipline within the Management Program.

Program Admission:
Enrolment in the MIB program is limited. Most students will be accepted into the program directly from secondary school. Transfer students, and current UTSC students, may also apply for admission, but generally only those students who are in the early stages of their academic careers will be considered. The MIB is only offered as a Co-op program; admission is based on the applicant’s academic performance as well as a supplementary application, and an interview process. Interviews are held in February, March and April for students who pass the initial screening. Successful students will demonstrate strength in academics, extra-curricular and volunteer activities, as well as an interest in, and focus on, developing global competencies. For further information please see the Co-operative Programs section in this Calendar at www.utsc.utoronto.ca/~registrar and the MIB section of the Management website: http://www.utsc.utoronto.ca/~mgmt/ManagementInternationalBusinessProgram.html

MIB Prep Course and Study Term:
Students will complete a non-credit international co-op prep course COPD08Y3 in their first year, prior to the first approved work term. Students are also required to complete one study term outside of Canada, typically in their second or third year with an approved partner University, and will be required to complete some of the program requirements during this time. Although scholarships may be available, students are expected to budget for the additional costs of studying abroad.

Work Term:
This program requires four years of study along with three approved academically related work terms. At least one of the work terms must be outside of Canada. Students must complete 7.0 credits prior to the commencement of their first work term, which will likely be in Canada. The location of the international placements will vary according to student interest, availability of positions, practicability and safety of an area, as well as established international relationships. For further information about status in the co-op program, fees, and regulations, please see the Co-operative Programs section in this Calendar.
Program Requirements:
The Program requires the completion of 14.5 to 15.0 credits as part of a twenty-credit B.B.A. degree.

Note: A single course may only be used once to fulfill one of the following requirements:

1. **8.5 to 9.0 credits in Management as follows:**
   - MGIA01H3/(MGTB07H3) Principles of International Marketing
   - MGTA05H3 Foundations of Business Management or [(MGTA01H3/MGTA03H3) and (MGTA02H3/MGTA04H3)]
   - [MGTA36H3 Management Communications for Co-op or (MGTC36H3)]
   - MGBA01H3/(MGTB05H3) Introductory Financial Accounting I
   - MGBI01H3/(MGTD19H3) Global Marketing
   - MGBA02H3/(MGTB06H3) Introductory Financial Accounting II
   - MGBI02H3/(MGTB25H3) International Organizational Behaviour
   - MGBA03H3/(MGTB03H3) Introductory Management Accounting
   - MGFB10H3/(MGTB09H3) Principles of Finance
   - MGBI12H3/(MGTB22H3) International Human Resources
   - MGIC01H3/(MGTD48H3) International Corporate Strategy
   - MGIC02H3/(MGTC91H3) International Leadership Skills
   - MGOC10H3/(MGTC74H3) Analysis for Decision-Making
   - MGFC10H3/(MGTC09H3) Intermediate Finance
   - MGOC20H3/(MGTC75H3) Operations Management: A Mathematical Approach
   - MGID40H3/(MGTD21H3) Introduction to International Business Law
   - MGID79H3/(MGTD79H3) International Capstone Case Analysis

2. **1.0 credit in Calculus from:**
   - [MATA32H3 and MATA33H3] strongly recommended, or
   - [MATA30H3/A31H3 and MATA35H3/A36H3/A37H3]

3. **3.0 credits in Economics for Management Studies as follows:**
   - MGEC02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach
   - MGEC06H3/(ECMA06H3) Introduction to Macroeconomics: A Mathematical Approach
   - MGEC02H3/(ECMA02H3) Price Theory: A Mathematical Approach
   - MGEC06H3/(ECMA06H3) Macroeconomic Theory and Policy: A Mathematical Approach
   - MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
   - MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II

4. **2.0 credits (four H-courses) of Languages (LGG) or French (FRE) courses:**
   - At least three courses must be in the same language (either LGG or FRE); the fourth course may follow that same language or may be a different language. Please note that your language skill will be assessed by the FRENCH and LANGUAGES areas before being formally placed in a given section.

Routes to Specialization:
The following routes to specialization are optional; students interested in concentrating in a specific area of study may choose from one of the following:

**Accounting**
Students interested in obtaining their accreditation in Accounting will require an additional semester to fulfill all of the requirements of an Accounting Specialist. Students should select courses for the CPA by referencing the Specialist in Management and Accounting program in the online Calendar.

**Economics**
Students interested in Economics should take MGEC61H3 and MGEC62H3 and [an additional 1.0 credit in MGE courses at the C- or D-level, with the exception of MGEC91H3, MGEC92H3 and MGEC93H3]

**Finance**
Students interested in Finance should take MGFC50H3 in the Fall semester of Year 4 of their study, and an additional 2.0 credits in MGF courses. Taking one more course in Finance allows interested students to acquire a better understanding of the fundamental principles of the area.

**Human Resources/Organizational Behaviour**
Students interested in Human Resources and Organizational Behaviour should take 2.0 credits in MGH courses.

**Marketing**
Students interested in Marketing should take 2.0 credits in MGM courses, including 0.5 credit at the D-level.
• Students interested in Management Strategy should take either MGSC03H3 or MGSC05H3 and an additional 1.0 credit in MGS courses.
• Students interested in Entrepreneurship should take 2.0 credits in MGS courses that are focused on Entrepreneurship.

NOTE: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in the Degree Requirements section of this Calendar.

Complementary Elective Courses (optional)
The following are some courses from other departments that can be used to complement the Specialist Program in Management and International Business. Students may want to consider these courses as potential electives. Please note that some of these courses require prerequisites which are not included in this program:
- GASB30H3 Asian Religions and Culture
- ANTA02H3 Introduction to Anthropology: Society, Culture and Language
- ANTB20H3 Culture, Politics and Globalization
- GGRA02H3 The Geography of Global Processes
- IDSB01H3 Political Economy of International Development
- IDSC12H3 Economics of Small Enterprise and Microcredit
- POLB80H3 Introduction to International Relations I
- POLB81H3 Introduction to International Relations II

CERTIFICATE IN BUSINESS
The Department of Management also offers a Certificate Program for non-degree students. (See the Degrees section of this Calendar for details.) For further information, non-degree students who are interested in this Certificate Program should visit the Department’s Website: www.utsc.utoronto.ca/mgmt/business_cert.html

Management Courses

MGAB01H3 Introductory Financial Accounting I
Together with MGAB02H3/(MGTB06H3), this course provides a rigorous introduction to accounting techniques and to the principles and concepts underlying these techniques.

The preparation of financial statements is addressed from the point of view of both preparers and users of financial information. Exclusion: (MGTB05H3), VPAB13H3, MGT120H, MGT201H, MGT220H, RSM219H, RSM220H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAB02H3 Introductory Financial Accounting II
This course is a continuation of MGAB01H3/(MGTB05H3). Students are encouraged to take it immediately after completing MGAB01H3/(MGTB05H3). Technical topics include the reporting and interpretation of debt and equity issues, owners' equity, cash flow statements and analysis. Through cases, choices of treatment and disclosure are discussed, and the development of professional judgment is encouraged. Exclusion: (MGTB05H3), VPAB13H3, MGT120H, MGT201H, MGT220H, RSM219H, RSM220H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAB03H3 Introductory Management Accounting
An introduction to management and cost accounting with an emphasis on the use of accounting information in managerial decision-making. Topics include patterns of cost behaviour, transfer pricing, budgeting and control systems. Exclusion: (MGTB03H3), MGT223H, MGT322H, RSM222H, RSM322H, VPAB13H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAC01H3 Intermediate Financial Accounting I
Together with MGAC02H3/(MGTC08H3), this course examines financial reporting in Canada. Through case analysis and the technical material covered, students will build on their knowledge covered in MGAB01H3/(MGTB05H3), MGAB02H3/(MGTB06H3) and, to a lesser extent, MGAB03H3/(MGTB03H3). Exclusion: Completion of 8.0 full credits including MGAB03H3/(MGTB03H3) and MGAB02H3/(MGTB06H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAC02H3 Intermediate Financial Accounting II
This course is a continuation of MGAC01H3/(MGTC07H3). Students will further develop their case writing, technical skills and professional judgment through the study of several complex topics. Topics include leases, bonds, pensions, future taxes and earnings per share. Exclusion: (MGTC08H3), MGT224H, MGT322H, RSM221H, RSM320H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAC03H3 Intermediate Management Accounting
An examination of various cost accumulation and performance evaluation systems and decision-making tools. Topics include job and process costing, flexible budgeting, and variance analysis and cost allocations. Exclusion: (MGTC06H3), MGT323H, RSM322H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

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MGAC10H3  Auditing
An introduction to the principles and practice of auditing. The course is designed to provide students with a foundation in the theoretical and practical approaches to auditing by emphasizing auditing theory and concepts, with some discussion of audit procedures and the legal and professional responsibilities of the auditor.
Prerequisite: MGAC01H3/(MGTC07H3)
Exclusion: (MGAD10H3), (MGTD60H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAC50H3  Canadian Income Taxation I
First of two courses in Canadian income taxation. It provides the student with detailed instruction in income taxation as it applies to individuals and small unincorporated businesses. Current tax laws are applied to practical problems and cases. Covers employment income, business and property income, and computation of tax for individuals.
Prerequisite: Completion of at least 10.0 full credits including
MGAB01H3/(MGTB05H3) and MGAB02H3/(MGTB06H3 and
MGAB03H3/(MGTB03H3).
Exclusion: (MGTC16H3), MGT423H, RSM324H
Recommended Preparation: MGAC01H3/(MGTC07H3) is highly recommended.
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAC70H3  Management Information Systems
This course is intended to help students understand the information systems that are a critical component of modern organizations. The course covers the technology, design, and application of data processing and information systems, with emphasis on managerial judgment and decision-making.
Prerequisite: MGAB03H3/(MGTB03H3) and [(MGHB02H3 or
[(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
Exclusion: (MGTC11H3), MGT371H, RSM327H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAD20H3  Advanced Auditing
An extension of the study of areas covered in the introductory audit course and will include the application of risk and materiality to more advanced topic areas such as pension and comprehensive auditing. Other topics include special reports, future oriented financial information and prospectuses. This will include a review of current developments and literature.
Prerequisite: MGAC10H3/(MGAD10H3)/(MGTD60H3)
Exclusion: (MGTD61H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAD40H3  Management Control Systems
An examination of how organizations support the implementation of strategy through the design of planning processes, performance evaluation, reward systems and HR policies, as well as corporate culture. Class discussion will be based on case studies that illustrate a variety of system designs in manufacturing, service, financial, marketing and professional organizations, including international contexts.
Prerequisite: MGAB03H3/(MGTB03H3) and [(MGHB02H3 or
[(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
Exclusion: (MGTD54H3), (MGTC10H3), RSM422H, MGT428H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAD45H3  Corporate Governance and Strategy: CPA Perspective
This course examines issues in Corporate Governance in today's business environment. Through case studies of corporate "ethical scandals", students will consider workplace ethical risks, opportunities and legal issues. Students will also examine professional accounting in the public interest as well as accounting and planning for sustainability.
Prerequisite: MGAC01H3 and MGSC30H
Corequisite: MGSC30H
Exclusion: (MGSC40H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAD50H3  Advanced Financial Accounting
An in-depth study of advanced financial accounting topics: long-term inter-corporate investment; consolidation (including advanced measurements and reporting issues); foreign currency translation and consolidation of foreign subsidiaries and non-profit and public sector accounting. This course is critical to the education of students preparing for a career in accounting.
Prerequisite: MGAC01H3/(MGTC07H3) and MGAC02H3/(MGTC08H3)
Exclusion: (MGTD50H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGAD60H3  Controversial Issues in Accounting
Through case analysis and literature review, this seminar addresses a variety of controversial reporting issues, impression management, the politics of standard setting and the institutional context. Topics may include: international harmonization, special purpose entities, whistle-blowing, the environment and social responsibility and professional education and career issues.
Prerequisite: MGAC01H3/(MGTC07H3) and MGAC02H3/(MGTC08H3)
Exclusion: (MGTD55H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAD65H3  Canadian Income Taxation II
This course is designed to give the student an understanding of the more complex issues of federal income tax law, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate re-organizations, partnerships, trusts, and individual and corporate tax planning.
Prerequisite: MGAC01H3/(MGTC07H3) and MGAC02H3/(MGTC08H3)
Exclusion: (MGTD55H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGAD70H3  Advanced Accounting Case Analysis: A Capstone Course
A capstone case course integrating critical thinking, problem solving, professional judgement and ethics. Business simulations will strategically include the specific technical competency areas and the enabling skills of the CPA Competency Map. This course should be taken as part of the last 5.0 credits of the Specialist/Specialist Co-op in Management and Accounting.
Prerequisite: MGAC01H3/(MGTC07H3) and MGAC02H3/(MGTC08H3)
Corequisite: MGAD20H3
Exclusion: (MGTD56H3)
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies
MGAD80H3 Accounting Issues in International Business
An overview of international accounting and financial reporting practices with a focus on accounting issues related to international business activities and foreign operations. Understanding the framework used in establishing international accounting standards, preparation and translation of financial statements, transfer pricing and taxation, internal and external auditing issues and discussion of the role of accounting and performance measurement for multinational corporations.
Prerequisite: MGAB02H3/(MGTB06H3) and MGAB03H3/(MGTB03H3) Exclusion: (MGTC34H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGFB10H3 Principles of Finance
An introduction to basic concepts and analytical tools in financial management. Building on the fundamental concept of time value of money, the course will examine stock and bond valuations and capital budgeting under certainty. Also covered are risk-return trade-off, financial planning and forecasting, and long-term financing decisions.
Prerequisite: MGB111H3/(ECMB11H3) and MGAB01H3/(MGTB05H3) Exclusion: (MGTC09H3), MGTC33H, RSM332H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGFC10H3 Intermediate Finance
This course covers mainstream finance topics. Besides a deeper examination of certain topics already covered in MGFB10H3/(MGTB09H3), the course will investigate additional subjects such as working capital management, capital budgeting under uncertainty, cost of capital, capital structure, dividend policy, leasing, mergers and acquisitions, and international financial management.
Prerequisite: MGFB10H3/(MGTB09H3) or (MGTC09H3) Exclusion: (MGTC09H3), MGTC33H, RSM333H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGFC20H3 Personal Financial Management
This course covers goal setting, personal financial statements, debt and credit management, risk management, investing in financial markets, real estate appraisal and mortgage financing, tax saving strategies, retirement and estate planning. The course will benefit students in managing their personal finances, and in their future careers with financial institutions.
Prerequisite: MGFB10H3/(MGTB09H3) Exclusion: (MGTC09H3) Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGFC30H3 Introduction to Derivatives Markets
This course introduces students to the fundamentals of derivatives markets covering futures, swaps, options and other financial derivative securities. Detailed descriptions of, and basic valuation techniques for popular derivative securities are provided. As each type of derivative security is introduced, its applications in investments and general risk management will be discussed.
Corequisite: MGFC10H3/(MGTC09H3) Exclusion: (MGTC71H3), MGTC438H, RSM435H Enrolment Limits: 50
Breadth Requirement: Social & Behavioural Sciences

MGFC50H3 International Financial Management
This course provides students with a framework for making financial decisions in an international context. It discusses foreign exchange markets, international portfolio investment and international corporate finance. Next to covering the relevant theories, students also get the opportunity to apply their knowledge to real world issues by practicing case studies.
Prerequisite: MGFC10H3/(MGTC09H3) Exclusion: (MGTC76H3), RSM437H, (MGTC49H)
Enrolment Limits: 50
Breadth Requirement: Social & Behavioural Sciences

MGFC60H3 Financial Statement Analysis and Security Valuation
This course introduces the tools and skills required to perform a comprehensive financial statement analysis from a user perspective. Students will learn how to integrate the concepts and principles in accounting and finance to analyze the financial statements and to utilize that information in earnings-based security valuation.
Prerequisite: MGFC10H3/(MGTC09H3) Exclusion: (MGTC77H3), RSM429H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGFD10H3 Investments
This course deals with fundamental elements of investments. Basic concepts and techniques are introduced for various topics such as risk and return characteristics, optimal portfolio construction, security analysis, investments in stocks, bonds and derivative securities, and portfolio performance measurements.
Corequisite: MGFC10H3/(MGTC09H3) Exclusion: (MGTD75H3), MGTC330H, RSM330H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGFD15H3 Special Topics in Finance: Private Equity
This course explores the private equity asset class and the private equity acquisition process. It covers both the academic and practical components of private equity investing, including: deal sourcing, financial modelling and valuations, transaction structuring, financing, diligence, negotiations, post transaction corporate strategy and governance.
Prerequisite: MGA02H3/(MGTB06H3) and MGFC10H3/(MGTC09H3) Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGFD30H3 Risk Management
This course develops analytical skills in financial risk management. It introduces techniques used for evaluating, quantifying and managing financial risks. Among the topics covered are market risk, credit risk, operational risk, liquidity risk, bank regulations and credit derivatives.
Prerequisite: MGFC10H3/(MGTC09H3) Exclusion: (MGTD78H3), ECO460H, ECO461H, RSM432H Enrolment Limits: 50
Breadth Requirement: Social & Behavioural Sciences

MGFD40H3 Investor Psychology and Behavioural Finance
This course is designed to help students understand how different psychological biases can affect investor behaviours and lead to systematic mispricing in the financial market. With simulated trading games, students will learn and practice various trading strategies to take advantage of these market anomalies.
Prerequisite: MGFC10H3/(MGTC09H3) and MGB12H3/(ECMB12H3) Exclusion: (MGTD73H3), MGTC430H
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences
MGFD50H3  Mergers and Acquisitions: Theory and Practice
This course provides a general introduction to the important aspects of M&A, including valuation, restructuring, divestiture, takeover defences, deal structuring and negotiations, and legal issues.
Prerequisite: MGFC10H3/(MGTC09H3)
Exclusion: (MGTD72H3), MGT434H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGFD60H3  Financial Modeling and Trading Strategies
This course integrates finance theories and practice by using financial modeling and simulated trading. Students will learn how to apply the theories they learned and to use Excel and VBA to model complex financial decisions. They will learn how the various security markets work under different simulated information settings.
Corequisite: MGFC30H3/(MGTC71H3) and MGFD10H3/(MGTD75H3)
Exclusion: (MGTD77H3), MGT435H, RSM434H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGFD70H3  Advanced Financial Management
This course reinforces and expands upon the topics covered in MGFB10H3/(MGTB09H3), (MGTC09H3) and MGFC10H3/(MGTC09H3). It examines more advanced and complex decision making situations a financial manager faces in such areas as capital budgeting, capital structure, financing, working capital management, dividend policy, leasing, mergers and acquisitions, and risk management.
Prerequisite: MGFC10H3/(MGTC09H3)
Exclusion: (MGTD71H3), RSM433H
Enrolment Limits: 50
Breadth Requirement: Social & Behavioural Sciences

MGHB02H3  Managing People and Groups in Organizations
An introduction to micro- and macro-organizational behaviour theories from both conceptual and applied perspectives. Students will develop an understanding of the behaviour of individuals and groups in different organizational settings. Topics covered include: individual differences, motivation and job design, leadership, organizational design and culture, group dynamics and inter-group relations.
Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3 and [MGTA35H3 or MGTA36H3 or (MGTC36H3)]
Exclusion: (MGTB29H3), MGIB02H3, (MGTB27Y3), MGT262H, RSM260H, PSY332H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGHB12H3  Human Resource Management
An introduction to current human resource practices in Canada, emphasizing the role of Human Resource Management in enhancing performance, productivity and profitability of the organization. Topics include recruitment, selection, training, career planning and development, diversity and human rights issues in the work place.
Prerequisite: MGHB02H3 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Exclusion: MGIB12H3/(MGTB22H3), (MGTC22H3), MGT460H, RSM460H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGHC02H3  Management Skills
This course will help students develop the critical skills required by today's managers. Topics covered include self-awareness, managing stress and conflict, using power and influence, negotiation, goal setting, and problem-solving. These skills are important for leadership and will enable students to behave more effectively in their working and personal lives.
Prerequisite: MGHB02H3 or MGIB02H3 or (MGTB23H3)
Exclusion: (MGTC24H3), (MGTC90H3), MGIC02H3/(MGTC91H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHC23H3  Diversity in the Workplace
Examines the nature and effects of diversity in the workplace. Drawing on theories and research from psychology, the course will examine topics like stereotyping, harassment, discrimination, organizational climate for diversity, conflict resolution within diverse teams, and marketing to a diverse clientele.
Prerequisite: MGHB02H3 or MGIB02H3 or (MGTB23H3) or (MGTB27Y3)
Exclusion: (MGTC23H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHC52H3  Business Negotiation
An introduction to the theory and practice of negotiation in business. This course develops approaches and tactics to use in different forums of negotiation, and an introduction to traditional and emerging procedures for resolving disputes. To gain practical experience, students will participate in exercises which simulate negotiations.
Prerequisite: MGHB02H3 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Exclusion: (MGTC52H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHC53H3  Introduction to Industrial Relations
An overview of the industrial system and process. The course will introduce students to: industrial relations theory, the roles of unions and management, law, strikes, grievance arbitration, occupational health and safety, and the history of the industrial relations system. Students will participate in collective bargaining simulations.
Prerequisite: Completion of at least 10.0 full credits including [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] or [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] and [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3]
Exclusion: (MGTC53H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGHD14H3  Leadership
This advanced leadership seminar builds on MGHC02H3/(MGTC90H3)
Management Skills, focusing on leadership theories and practices. Through case studies, skill-building exercises, and world-class research, students will learn critical leadership theories and concepts while gaining an understanding of how effective leaders initiate and sustain change at the individual and corporate levels, allowing each student to harness their full leadership potential.
Prerequisite: [MGHB02H3 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] or MGHC02H3/(MGTC90H3) or MGIC02H3
Exclusion: (MGTD14H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences
MGHD24H3  Occupational Health and Safety Management
Occupational health and safety is a management function, however, many managers are not prepared for this role when they arrive in their first jobs. This course will consider the physical, psychological, social, and legal environments relevant to health and safety in the workplace.
Prequisite: MGHB12H3/(MGTC22H3) or MGIB12H3
Exclusion: (MGTD24H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGHD25H3  Human Resources Recruitment and Selection
An in-depth look at recruitment and selection practices in organizations. Students will learn about organizational recruitment strategies, the legal issues surrounding recruitment and selection, how to screen job applicants, and the role of employee testing and employee interviews in the making selection decisions.
Prequisite: MGHB12H3/(MGTC22H3) or MGIB12H3
Exclusion: (MGTD25H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHD26H3  Training and Development
This course is designed to teach students about the training and development process. Topics include how training and development fits within the larger organizational context as well as learning, needs analysis, the design and delivery of training programs, on and off-the-job training methods, the transfer of training, and training evaluation.
Prequisite: MGHB12H3/(MGTC22H3) or MGIB12H3
Exclusion: (MGTD26H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHD27H3  Human Resources Planning and Strategy
This course is designed to provide students with an understanding of strategic human resource management and the human resource planning process. Students will learn how to forecast, design, and develop human resource plans and requirements using both qualitative and quantitative techniques.
Prequisite: MGHB12H3/(MGTC22H3) or MGIB12H3
Exclusion: (MGTD27H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGHD28H3  Compensation
This course is designed to provide students with an understanding of compensation programs and systems. Students will learn how to design and manage compensation and benefit programs; individual and group reward and incentive plans; and how to evaluate jobs and assess employee performance.
Prequisite: MGHB12H3/(MGTC22H3) or MGIB12H3
Exclusion: (MGTD28H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIA01H3  Principles of International Marketing
An introduction to basic marketing concepts and tools that provide students with a conceptual framework for analyzing marketing problems facing global managers. Topics are examined from an international marketing perspective and include: buyer behaviour, market segmentation and basic elements of the marketing mix.
Prequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3
Exclusion: (MGTB07H3), MGMA01H3/(MGTB04H3), RSM250H, MGT252H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIB01H3  Global Marketing
This course examines the challenge of entering and operating in foreign markets. Topics such as international marketing objectives, foreign market selection, adaptation of products, and communication and cultural issues, are examined through case discussions and class presentations.
The term project is a detailed plan for marketing a specific product to a foreign country.
Prequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTD19H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIB02H3  International Organizational Behaviour
Examines how and why people from different cultures differ in their workplace behaviours, attitudes, and in how they behave in teams. Uses discussion and case studies to enable students to understand how employees who relocate or travel to a different cultural context, can manage and work in that context.
Prequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3
Exclusion: (MGTB25H3), MGHB02H3, (MGTB23H3), (MGTB29H3), (MGTB27Y3), RSM260H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIB12H3  International Human Resources
This course examines how human resource practices are different across cultures and how they are affected when they "go global." It examines how existing organizational structures and human resource systems need to adapt to globalization, in order to succeed domestically and internationally.
Prequisite: MGIB02H3/(MGTB25H3)
Exclusion: (MGTB22H3), MGHB12H3/(MGTC22H3), RSM406H, (MGT460H)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIC01H3  International Corporate Strategy
International Corporate Strategy examines the analyses and choices that corporations make in an increasingly globalized world. Topics will include: recent trends in globalization, the notion of competitive advantage, the choice to compete through exports or foreign direct investment, and the risks facing multinational enterprises.
Prequisite: Minimum of 10.0 credits including MGA802H3/(MGTB06H3) and MGIA01H3/(MGTB07H3) and MGBF10H3/(MGTB09H3) and MGIB02H3/(MGTB25H3)
Exclusion: (MGTD48H3), MGSC01H3
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences
MGIC02H3 International Leadership Skills

Leaders who work internationally must learn how to customize their leadership competencies to the different cultures in which they practice. By using role plays, simulations, cases, and class discussions, students will develop the culturally appropriate leadership skills of articulating a vision, planning and implementing goals, negotiation, and providing effective feedback.

Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3 and MGIB02H3/(MGTB25H3)
Exclusion: (MGTC91H3), MGHC02H3/(MGTC90H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGIC14H3 International Business Ethics

In a world that's increasingly globalized internationally and multicultural domestically, an ability to deal with the ethical issues arising in international business is essential to a managerial career. Sample topics: Reconciling the different cultural norms of one's home and host countries, and dealing with issues such as child labour and human rights violations.

Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3
Exclusion: (MGTD01H3), MGSC14H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

MGID40H3 Introduction to International Business Law

This course offers an introduction to key topics in the law governing international trade and business transactions, including the law and conventions governing foreign investment, and the legal structure of doing business internationally, the international sale and transportation of goods, international finance, intellectual property and international dispute settlement.

Prerequisite: MGSC03H3/(MGTC31H3)
Exclusion: (MGTD21H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGID79H3 International Capstone Case Analysis

This course focuses on critical thinking and problem solving skills through analyzing, researching and writing comprehensive business cases, and is offered in the final semester of the MIB specialist program. It is designed to provide students the opportunity to apply the knowledge acquired from each major area of management studies to international real-world situations.

Prerequisite: MGAB03H3/(MGTB03H3) and MGIA01H3/(MGTB07H3) and MGIB12H3/(MGTB22H3) and MGIB02H3/(MGTB25H3) and MGFC10H3/(MGTC09H3) and MGIC14H3/(MGTD01H3) and MGIC01H3/(MGTD48H3) and [MGE61H3/(ECMC61H3) or MGE62H3/(ECMC62H3)]
Exclusion: (MGTD79H3), MGSD01H3
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMA01H3 Principles of Marketing

An introduction to basic concepts and tools of marketing designed to provide students with a conceptual framework for the analysis of marketing problems. The topics include an examination of buyer behaviour, market segmentation; the basic elements of the marketing mix. Enrolment is limited to students registered in Programs requiring this course.

Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)]
Corequisite: MGTA05H3
Exclusion: (MGTB04H3), MGIA01H3/(MGTB07H3), (MGTB25H),

MGMB01H3 Marketing Management

This course builds on the introductory course in marketing and takes a pragmatic approach to develop the analytical skills required of marketing managers. The course is designed to help improve skills in analyzing marketing situations, identifying market opportunities, developing marketing strategies, making concise recommendations, and defending these recommendations. It will also use case study methodology to enable students to apply the concepts learned in the introductory course to actual issues facing marketing managers.

Prerequisite: [MGMA01H3/(MGTB04H3) or MGTA01H3/(MGTB07H3)] and [MGTA35H3 or GT36H3 or (MGTC36H3)]
Exclusion: (MGTC05H3), (MGTD20H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC01H3 Market Research

A decision oriented course, which introduces students to the market research process. It covers different aspects of marketing research, both quantitative and qualitative, and as such teaches some essential fundamentals for the students to master in case they want to specialize in marketing. And includes alternative research approaches (exploratory, descriptive, causal), data collection, sampling, analysis and evaluation procedures are discussed. Theoretical and technical considerations in design and execution of market research are stressed. Instruction involves lectures and projects including computer analysis.

Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTD07H3), MG453H, RSM452H
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC02H3 Consumer Behaviour

This course provides an overview of the role of products in the lives of consumers. Drawing on theories from psychology, sociology and economics, the course provides (1) a conceptual understanding of consumer behaviour (e.g. why people buy), and (2) an experience in the application of these concepts to marketing decisions.

Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTD13H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGMC11H3 Product Management and Branding

Managing products and brands is one of the most important functions of a successful marketer. Product lines and extensions and other issues of product portfolio will be covered in this course. This course also examines issues about brand equity, its measurement and contemporary challenges faced by marketers about branding product management.

Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC21H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences
MGMC12H3 Advertising: From Theory to Practice
An introduction to the basic communication tools used in planning, implementing and assessing promotional strategies. The course reviews basic findings of the behavioral sciences dealing with perception, personality, psychological appeals, and their application to advertising as persuasive communication. Students will gain experience preparing a promotional plan for a small business. The course will rely on lectures, discussions, audio-visual programs and guest speakers from the local advertising industry.
Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC12H3), (MGTD12H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC13H3 Pricing Strategy
Pricing right is fundamental to a firm’s profitability. This course draws on microeconomics to develop practical approaches for optimal pricing decision-making. Students develop a systematic framework to think about, analyze and develop strategies for pricing right. Key issues covered include pricing new product, value pricing, behavioural issues, and price segmentation.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB02H3/(ECMB02H3)
Exclusion: (MGTC13H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC14H3 Sales and Distribution Management
Sales and distribution are critical components of a successful marketing strategy. The course discusses key issues regarding sales force management and distribution structure and intermediaries. The course focuses on how to manage sales force rather than how to sell, and with the design and management of an effective distribution network.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)]
Exclusion: (MGTC14H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC20H3 Marketing in the Information Age
This course covers the advantages/disadvantages, benefits and limitations of E-commerce. Topics include: E-commerce business models; Search Engine Optimization (SEO); Viral marketing; Online branding; Online communities and Social Networking; Mobile and Wireless E-commerce technologies and trends; E-Payment Systems; E-commerce security issues; Identity theft; Hacking; Scams; Social Engineering; Biometrics; Domain name considerations and hosting issues. Students will also gain valuable insight from our guest speakers.
Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC20H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGMC20H3 Event and Sponsorship Management
Event and Sponsorship Management involves the selection, planning and execution of specific events as well as the management of sponsorship rights. This will involve the integration of management skills, including finance, accounting, marketing and organizational behaviour, required to produce a successful event.
Prerequisite: Completion of at least 10.0 full credits in any B.B.A. program
Exclusion: (MGTC33H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGMD01H3 Applied Marketing Models
Marketing is a complex discipline incorporating not only an "art" but also a "science". This course reviews the "science" side of marketing by studying multiple models used by companies. Students will learn how to assess marketing problems and use appropriate models to collect, analyze and interpret marketing data.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3)
Exclusion: (MGTD30H3), MGT455H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

MGMD02H3 Judgement and Decision Making
This course combines the elements of behavioral research as applied to consumers' decision making models and how this can be used to predict decisions within the marketing and consumer oriented environment. It also delves into psychology, economics, statistics, and other disciplines.
Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC20H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGMD10H3 Special Topics in Marketing I
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGMD11H3 Special Topics in Marketing II
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGOC10H3 Analysis for Decision-Making
Marketing is a complex discipline incorporating not only an “art” but also a “science”. This course reviews the “science” side of marketing by studying multiple models used by companies. Students will learn how to assess marketing problems and use appropriate models to collect, analyze and interpret marketing data.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3)
Exclusion: (MGTD30H3), MGT455H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

MGMD10H3 Applied Marketing Models
Marketing is a complex discipline incorporating not only an “art” but also a “science”. This course reviews the “science” side of marketing by studying multiple models used by companies. Students will learn how to assess marketing problems and use appropriate models to collect, analyze and interpret marketing data.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3)
Exclusion: (MGTD30H3), MGT455H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

MGMD02H3 Judgement and Decision Making
This course combines the elements of behavioral research as applied to consumers' decision making models and how this can be used to predict decisions within the marketing and consumer oriented environment. It also delves into psychology, economics, statistics, and other disciplines.
Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC20H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGMD10H3 Special Topics in Marketing I
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGMD11H3 Special Topics in Marketing II
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGOC10H3 Analysis for Decision-Making
Marketing is a complex discipline incorporating not only an “art” but also a “science”. This course reviews the “science” side of marketing by studying multiple models used by companies. Students will learn how to assess marketing problems and use appropriate models to collect, analyze and interpret marketing data.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3)
Exclusion: (MGTD30H3), MGT455H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

MGMD02H3 Judgement and Decision Making
This course combines the elements of behavioral research as applied to consumers' decision making models and how this can be used to predict decisions within the marketing and consumer oriented environment. It also delves into psychology, economics, statistics, and other disciplines.
Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)
Exclusion: (MGTC20H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGMD10H3 Special Topics in Marketing I
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGMD11H3 Special Topics in Marketing II
This course brings current faculty research in areas like consumer behaviour and choice, pricing, promotions, attitudes and their importance to marketing and research methodology. The coverage will include specific theoretical or functional areas in marketing. The particular content in any given year will depend on the faculty member.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGBB11H3/(MGTC05H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGOC10H3 Analysis for Decision-Making
Marketing is a complex discipline incorporating not only an “art” but also a “science”. This course reviews the “science” side of marketing by studying multiple models used by companies. Students will learn how to assess marketing problems and use appropriate models to collect, analyze and interpret marketing data.
Prerequisite: [MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3)] and MGEB11H3/(ECMB11H3) and MGBB12H3/(ECMB12H3)
Exclusion: (MGTD30H3), MGT455H
Enrolment Limits: 30
Breadth Requirement: Quantitative Reasoning

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MGSC02H3 Operations Management: A Mathematical Approach
An introduction to a broad scope of major strategic and tactical issues in Operations Management. Topics include: project management, inventory management, supply chain management, forecasting, aggregate planning, material requirements planning, production scheduling.
Prerequisite: MGOC10H3/(MGTC74H3)
Exclusion: (MGTC75H3), MGT374H, RSM370H
Enrolment Limits: 60
Breadth Requirement: Quantitative Reasoning

MGSC03H3 Corporate Strategy
Begins with an examination of the concept of business mission. Students are then challenged to evaluate the external and industry environments in which businesses compete, to identify sources of competitive advantage and value creation, and to understand and evaluate the strategies of active Canadian companies.
Prerequisite: [MGHB02H3 or (MGTB29H3) or (MGTB27Y3)] and [MGB02H3 or (MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
Exclusion: (MGSC22H3), (MGTC38H3), MGT492H, RSM492H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC05H3 The Changing World of Business - Government Relations
How regulation, privatization and globalization are affecting today's managers.
Most major management issues and business opportunities involve government (domestic or foreign) at some level - whether as lawmaker, customer, partner, investor, tax-collector, grant-giver, licensor, dealmaker, friend or enemy. This course provides students with an understanding of the issues and introduces some of the skills necessary to successfully manage a business's relationship with government.
Prerequisite: [MGTA01H3/(MGT03H3) and MGTA02H3/(MGT04H3)] or MGTA05H3 or POLB50Y3
Exclusion: (MGTC45H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC07H3 Introduction to Case Analysis Techniques
This course focuses on the theory and techniques of analyzing and writing business cases. The main focus is to assist students in developing their conceptual and analytical skills by applying the theory learned from each major area of management studies to practical situations. Critical thinking and problem solving skills are developed through extensive use of case analysis.
Prerequisite: MGB03H3/(MGTB03H3) and MGFB10H3/(MGTB09H3) and [MGB02H3 or (MGTB23H3)]
Corequisite: MGMA01H3/(MGTA04H3) and MGB02H3/(MGTB06H3)
Exclusion: (MGTC37H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGSC08H3 Management Ethics
Increasingly, the marketplace has come to reward -- and government regulators have come to demand -- a sophisticated managerial approach to the ethical problems that arise in business. Topics include ethical issues in international business, finance, accounting, advertising, intellectual property, environmental policy, product and worker safety, new technologies, affirmative action, and whistle-blowing.
Prerequisite: [MGTA01H3/(MGT03H3) and MGTA02H3/(MGT04H3)] or MGB05H3
Exclusion: (MGTC59H3), MGIC14H3, PHLB06H3
Enrolment Limits: 60
Breadth Requirement: History, Philosophy & Cultural Studies

MGSC09H3 Public Management
An introduction to key public sector management processes: strategic management at the political level, planning, budgeting, human resource management, and the management of information and information technology. Makes use of cases, and simulations to develop management skills in a public sector setting.
Prerequisite: [MGHB02H3 or (MGTB23H3) or (MGTB27Y3)] or [MGB02H3 or (MGTB23H3) and (MGTB29H3)] or POLB50Y3
Exclusion: (MGTC42H3)
Enrolment Limits: 35
Breadth Requirement: Social & Behavioural Sciences

MGSC20H3 Consulting and Contracting: New Ways of Work
Tomorrow's graduates will enjoy less career stability than previous generations. Technology and demography are changing the nature of work. Instead of having secure progressive careers, you will work on contract or as consultants. You will need to think, and act like entrepreneurs. This course examines why and how.
Prerequisite: MGB03H3/(MGTB03H3) and (MGTB23H3) or (MGTB27Y3)] or [2.0 credits at the C-level in POL courses] or ENGD04H3
Exclusion: (MGTC35H3)
Enrolment Limits: 35
Breadth Requirement: Arts, Literature & Language

MGSC21H3 Narrative and Management
Through the analysis of fiction and non-fiction narratives, particularly film, dealing with managers in both private and public sector organizations, the course explores the ethical dilemmas, organizational politics and career choices that managers can expect to face.
Prerequisite: MGB02H3 or (MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) or [2.0 credits at the C-level in POL courses] or ENG094H3
Exclusion: (MGTC35H3)
Enrolment Limits: 35
Breadth Requirement: Arts, Literature & Language

MGSC22H3 Entrepreneurship
This course focuses on the skills required and issues - personal, financial, sales, operational, personnel - entrepreneurs face as their smaller business grows from start-up to maturity. The course should interest those who wish to own, or seek careers with, an entrepreneurial business in either the "old" or "new" economies.
Prerequisite: MGTA05H3 or POLB50Y3
Exclusion: (MGTC75H3), MGT374H, RSM370H
Enrolment Limits: 60
Breadth Requirement: Quantitative Reasoning

MGSC24H3 Management Information Systems
Focuses on the management of information systems in contemporary organizations. Emphasis is placed on the role of information in decision-making, the management of information systems, and the management of information technology. Topics include: information use, systems development, and data security.
Prerequisite: (MGTA05H3 or POLB50Y3) and [MGHB02H3 or (MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]
Exclusion: (MGTC36H3), MGSC14H3, MGMA01H3/(MGTB04H3)
Enrolment Limits: 60
Breadth Requirement: Quantitative Reasoning

MGSC26H3 Venture Capital
Venture capital and other sources of private equity play a critical role in the founding and development of new enterprises. In this course, we will review all aspects of starting and operating a venture capital firm. At the end of the course, students will better understand how the venture capital industry works; what types of businesses venture capitalists invest in and why; how contract structures protect investors; how venture capitalists create value for their investors and for the companies in which they invest; and how the North American venture capital model ports to other contexts.
Prerequisite: MGTA05H3 and MGFB10H3 and MGEC40H3
Breadth Requirement: Social & Behavioural Sciences

NOTE: Priority will be given to students enrolled in the Entrepreneurship
MGSC30H3  The Legal Environment of Business I
An introduction to the Canadian legal system and its effects on business entities. The course includes an examination of the Canadian court structure and a discussion of the various forms of business ownership, tort law, contract law, and property law.
Prerequisite: Completion of at least 10.0 full credits including MGAB01H3/(MGTB05H3) and MGAB02H3/(MGTB06H3)
Exclusion: (MGTC31H3), MGTC39H3, RSM225H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC32H3  The Legal Environment of Business II
This course further examines the issues raised in Legal Environment of Business I. It focuses on relevant areas of law that impact business organizations such as consumer protection legislation and agency and employment law, and it includes a discussion of laws affecting secured transactions and commercial transactions.
Prerequisite: MGSC30H3/(MGTC31H3)
Exclusion: (MGTC32H3), MGTC39H4, RSM325H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC44H3  International Business Management
This Course deals with: political risk & contingency planning; human threats; weather extremes; NGOs (WTO, IMF & World Bank); government influences - dumping, tariffs, subsidies; cultures around the world; foreign exchange issues; export financing for international business; international collaborative arrangements; and pro-active/re-active reasons for companies going international. There will also be guest speakers.
Prerequisite: MGBH02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)
Exclusion: (MGTC44H3), MGT491H, RSM490H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC60H3  Managerial Perspectives in a Global Economy
This course discusses Managerial perspectives on the influences of Globalization, Sovereignty and Sustainable Development. Extensive discussions of int'l business ethics and social-cultural considerations. Foreign Direct Investment, Outsourcing, Global Manufacturing and Supply Chain Management. Guest speakers.
Prerequisite: MGBE02H3/(ECMB02H3) and MGBE06H3/(ECMB06H3)
Exclusion: (MGTC46H3), MGE93H3/(ECMC93H3), ECO230Y, ECO364H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGSC01H3  Senior Seminar in Strategic Management
This course allows 4th year specialists in strategic management to apply their specific skills to several larger, in-depth studies of strategic management issues in open-ended real-world cases. How strategic decisions are made at the higher levels of management with an opportunity to integrate previous training through analyses and presentations.
Prerequisite: Completion of at least 11.0 full credits with 1.0 full credit (2 courses) from MGSC01H3/(MGTC41H3), MGSC03H3/(MGTC42H3) or MGSC05H3/(MGTC45H3).
Exclusion: (MGTD47H3), MGID79H3
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGSD10H3  Knowledge Management
The course considers skills for managing knowledge assets and intellectual capital: fostering knowledge creation, representing and transferring knowledge and experience, building knowledge networks and communities of practice, managing knowledge assets for a competitive advantage and using information technology to support knowledge management.
Prerequisite: Completion of at least 10.0 full credits in a B.B.A. program
Exclusion: (MGTD40H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGSD24H3  New Venture Creation and Planning
Aimed at students interested in launching their own entrepreneurial venture. The core of the course is the development of a complete business plan which details the student's plans for the venture's initial marketing, finance and growth. This course provides a framework for the evaluation of the commercial potential of business ideas.
Prerequisite: MGMA01H3/(MGTB04H3) and MGAB01H3/(MGTB05H3) and MGAB02H3/(MGTB06H3)
Exclusion: (MGSC24H3), (MGTC39H3)
Breadth Requirement: Social & Behavioural Sciences

MGSD30H3  Intellectual Property Law
This course considers patents, trademarks, copyright and confidential information. Canada's international treaty obligations as well as domestic law will be covered. Policy considerations, such as the patentability of life forms, copyright in an Internet age of easy copying and patents and international development will be included.
Prerequisite: MGSC30H3/(MGTC31H3)
Exclusion: (MGTD45H3)
Recommended Preparation: 9.5 full credits in addition to the prerequisite.
Breadth Requirement: Social & Behavioural Sciences

MGT01H3  Introduction to Business
This course serves as an introduction to the process of management, including planning, organizing and the role of management within the broader business community.
Exclusion: MGTA05H3, (MGTA03H3), (COM110H), MGM101H, RSM100Y
Breadth Requirement: Social & Behavioural Sciences

MGT02H3  Managing the Business Organization
This course serves as an introduction to the functional areas of business, including accounting, finance, production and marketing. It builds on the material covered in MGTA01H3/(MGTA03H3).
Prerequisite: MGTA01H3/(MGTA03H3)
Exclusion: MGTA05H3, (MGTA04H3), MGM102H, RSM105Y
Breadth Requirement: Social & Behavioural Sciences

MGT05H3  Foundations of Business Management
This course is the basic foundation to the core areas of the program. It covers the process of management, the role of the manager in an increasingly networked economy of global reach, some aspects of leadership in business strategy and business administration, the place of the business in its larger economic context, and the economic perspective of business.
Prerequisite: Enrolment in a Bachelor of Business Administration (B.B.A.) program.
Exclusion: MGTA01H3/(MGTA03H3), MGTA02H3/(MGTA04H3), RSM100Y, MGM101H, COM110H
Breadth Requirement: Social & Behavioural Sciences

MGTA35H3 Management Communications for non Co-op
In this course students will learn skills and techniques to communicate effectively in an organization. Creativity, innovation and personal style will be emphasized. Students will build confidence in their ability to communicate effectively in every setting. This course is a mandatory requirement for non-co-op students.
Exclusion: MGTA36H3, (MGTC36H3)
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGTA36H3 Management Communications for Co-op
In this course students will learn skills and techniques to communicate effectively in an organization. Creativity, innovation and personal style will be emphasized. Students will build confidence in their ability to communicate effectively in every setting. Those completing this course will experience a high degree of personal satisfaction.
Exclusion: MGTA35H3, (MGTC36H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences

MGTB60H3 Introduction to the Business of Sports
This course provides an introductory overview to the business of sport as it has become one of the largest industries in the world. Drawing from relevant theories applied to sports management, the course will incorporate practical case studies, along with critical thinking assignments and guest speakers from the industry.
Prerequisite: MGTA05H3 or [MGTA01H3 and MGTA02H3]
Exclusion: (HLTB05H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

MGTCD15H3 Commercial Dispute Resolution
This course examines the theory and practice of models of dispute resolution for the settlement of commercial conflict. Through readings, classroom lectures and independent research, students will consider alternate dispute resolution models of advanced negotiation, mediation and arbitration as alternatives to traditional court-based litigation.
Prerequisite: Completion of at least 8.0 full credits
Enrolment Limits: 30
Breadth Requirement: Social & Behavioural Sciences

MGTD80H3 Supervised Reading in Management
These courses are intended for upper level students whose interests are not covered in one of the other Management courses normally offered. The courses will only be offered when a faculty member is available for supervision and to students whose Management performance has been well above average. Students interested in these courses should consult with the Supervisor of Studies for Management well in advance. Students must obtain consent from the supervising instructor and the Department of Management before registering in these courses.

MGTD81H3 Supervised Reading in Management
These courses are intended for upper level students whose interests are not covered in one of the other Management courses normally offered. The courses will only be offered when a faculty member is available for supervision and to students whose Management performance has been well above average. Students interested in these courses should consult with the Supervisor of Studies for Management well in advance. Students must obtain consent from the supervising instructor and the Department of Management before registering in these courses.

MGTD82Y3 Supervised Reading in Management
These courses are intended for upper level students whose interests are not covered in one of the other Management courses normally offered. The courses will only be offered when a faculty member is available for supervision and to students whose Management performance has been well above average. Students interested in these courses should consult with the Supervisor of Studies for Management well in advance. Students must obtain consent from the supervising instructor and the Department of Management before registering in these courses.

MGC56H3 Planning and Budgeting for Public Institutions
The theory and practice of planning and allocating resources in public institutions.
After presenting theories of planning and resource allocation in public institutions, the course will illustrate them by means of case studies of challenges faced by universities and colleges. Instruction will be a combination of lecture, discussion, and case studies.
Prerequisite: MGAB03H3/(MGTB03H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

MGC56H3 Educational Finance and Economics
This course is about the financing of schools, colleges, and universities; how resources are raised, how they are allocated and how they are economically justified.
The course is also about connections between investments in education and economic growth, between systems and allocation, between forms of budgets and between funding and performance.
Prerequisite: MGAB03H3/(MGTB03H3)
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
Mathematics

Faculty List

- N. Breuss, B.Sc., M.Sc. (Kharkov), Ph.D. (Moscow), Associate Professor, Teaching Stream
- R.-O. Buchweitz, M.Sc., Ph.D. (Hanover), Professor
- S. Chrysostomou, B.Sc., M.Sc. (Toronto), Associate Professor, Teaching Stream
- J. Friedlander, B.Sc. (Toronto), M.A. (Waterloo), Ph.D. (Penn. State), F.R.S.C., University Professor
- M. Goldstein, B.A., M.Sc., Ph.D. (Tashkent), Professor
- R. Grinnell, B.Sc. (Toronto), M.A. (York), Ph.D. (Queen's), Associate Professor, Teaching Stream
- R. Hashofer, B.Sc., M.Sc., Ph.D. (ETH Zurich), Assistant Professor
- L.C. Jeffrey, A.B. (Princeton), M.A. (Cambridge), D. Phil. (Oxford), Professor
- X. Jiang, B.Sc., M.Sc., Ph.D. (Glasgow), Associate Professor, Teaching Stream
- E. Mendelsohn, B.Sc., M.Sc. (Manitoba), Ph.D. (McGill), Professor Emeritus
- E. Moore, Hon. B.A., B.Ed., M.A. (Memorial), Ph.D. (Toronto), Associate Professor, Teaching Stream
- J. Scherk, B.Sc., M.Sc. (Toronto), D.Phil. (Oxford), Associate Professor
- P. Selick, B.Sc., M.Sc., Ph.D. (Princeton), Professor Emeritus
- Z. Shahbazi, B.Sc. (Sharif), M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- R.W. Sharpe, B.Sc., M.Sc. (Toronto), Ph.D. (Yale), Professor Emeritus
- K. Smith, Hon. B.Sc., M.Sc., Ph.D. (Toronto), Lecturer
- B. Virag, B.A. (Harvard), M.A., Ph.D. (Berkeley), Professor

Associate Chair: J. Scherk Email: scherk@utsc.utoronto.ca (416-287-7043)

Our Mathematics began in the ancient Mesopotamian civilizations. The Babylonians already knew much of the mathematics taught traditionally in our schools. Their algebra and geometry was phrased in terms of crops and fields and money. Since the Renaissance, much of mathematics has come from problems in physics and astronomy; for example, calculus arose from problems in mechanics. In turn mathematics has provided the theoretical framework and tools in the Physical Sciences. In the 19th century some parts of mathematics appeared to develop away from their origins in the physical world. To the great surprise of many scientists and mathematicians, some of the "pure" mathematics has turned out to be essential in many aspects of 20th century science. Differential geometry provides the language for general relativity and cosmology, and Hilbert space theory and group representations are the tools for quantum mechanics. Similarly, graph theory, combinatorics and number theory play a major role in computer science.

The Specialist and Major Programs in Mathematics are eligible for inclusion in the Concurrent Teacher Education Program (CTEP). Please refer to the Concurrent Teacher Education section of this Calendar for further information.

Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options include:
- Mathematics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Major), Honours Bachelor of Science/ Master of Teaching
- Mathematics (Major Co-op), Honours Bachelor of Science/ Master of Teaching

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

Service Learning and Outreach (Previously Known as Science Engagement)
For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

Mathematics Programs
SPECIALIST PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies: E. Moore (416-287-7267) Email: emoore@utsc.utoronto.ca

Program Objectives

This program provides the student with a sound foundation in the main areas of mathematics, and some exposure to computer programming and statistics. It comprises three streams: Comprehensive, Statistics, and Teaching, each serving a more specific goal.

The **Comprehensive Stream** provides a broad and deep knowledge of mathematics at the undergraduate level. It is the recommended program for students who plan to pursue graduate study in mathematics, but it is also suitable for other career paths.

The **Statistics Stream** provides greater exposure to statistics, and the areas of mathematics most closely associated with it. This stream prepares students for careers in industry, or for graduate study in certain mathematically-oriented subjects, including statistics and financial mathematics.

The **Teaching Stream** is intended for students with a serious interest in mathematics but whose career objectives lie in mathematics education at the elementary or secondary level.

Program Requirements

The Program requirements consist of a core 15 courses (7.5 credits), common to all streams, and additional requirements that depend on the stream, for a total of 26-27 courses (13.0-13.5 credits).

The structure of the programs allows for easy switching between streams until relatively late. Consequently, these programs should not be viewed as rigidly separated channels feeding students to different career paths, but as a flexible structure that provides guidance to students in their course selection based on their broad (but possibly fluid) interests.

**Core (7.5 credits)**

1. **Writing Requirement** (0.5 credit)(*):
   
   (*) It is recommended that this requirement be satisfied by the end of the second year.

2. **A-level courses** (2.5 credits):
   [CSCA08H3 Introduction to Computer Science I or CSCA20H3 Introduction to Programming]
   MATA23H3 Linear Algebra I
   MATA31H3 Calculus I for Mathematical Sciences
   MATA37H3 Calculus II for Mathematical Sciences
   [MATA67H3 or CSCA67H3 Discrete Mathematics]

3. **B-level courses** (3.5 credits):
   MATB24H3 Linear Algebra II
   MATB41H3 Techniques of the Calculus of Several Variables I
   MATB42H3 Techniques of the Calculus of Several Variables II
   MATB43H3 Introduction to Analysis
   MATB44H3 Differential Equations I
   STAB52H3 Introduction to Probability (**)
   STAB57H3 Introduction to Statistics (**)
   
   (**) This course may be taken after second year, except for the Statistics stream.

4. **C-level courses** (1 credit):
   MATC01H3 Groups and Symmetry
   MATC34H3 Complex Variables

A. **Comprehensive Stream**

This stream requires a total of 27 courses (13.5 credits)

In addition to the core requirements 1-4 common to all streams, 12 other distinct courses must be chosen satisfying all of the following requirements:

5. **Additional courses in analysis and algebra** (1.5 credits):
   MATC37H3 Introduction to Real Analysis
   MATC46H3 Differential Equations II
   MATD01H3 Fields and Groups

6. **Courses in key areas of mathematics** (1.0 credits):
   Two of:
   - MATC15H3 Introduction to Number Theory
MATC27H3 Introduction to Topology
MATC63H3 Differential Geometry
MATD02H3 Classical Plane Geometries and their Transformations
MATD34H3 Complex Variables II

7. Mathematics of computation (1.0 credit):
   Two of:
   - CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
   - CSCC63H3 Computability and Computational Complexity
   - CSCC63H3 Algorithm Design and Analysis
   - MATC09H3 Introduction to Mathematical Logic
   - MATC16H3 Coding Theory and Cryptography
   - MATC32H3 Graph Theory and Algorithms for its Applications
   - MATC44H3 Introduction to Combinatorics

8. Electives (2.5 credits):
   Five courses from CSC/MAT/STA/PHY of which at least 3 must be C- or D-level MAT courses (excluding MATC90H3).

B. Statistics Stream
   This stream requires a total of 26 courses (13.0 credits).
   In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements (in choosing courses to satisfy requirements 7-9, students must select at least one D-level course).

5. Algebra and Analysis (1.5 credits):
   - MATB61H3 Linear Programming and Optimization
   - MATC46H3 Differential Equations II
   - MATD01H3 Fields and Groups

6. Regression Analysis (0.5 credit):
   - STAC67H3 Regression Analysis

7. Discrete mathematics and geometry (0.5 credit):
   One of:
   - MATC32H3 Graph Theory and Algorithms for its Applications
   - MATC44H3 Introduction to Combinatorics
   - MATD02H3 Classical Plane Geometries and their Transformations

8. Upper-level MAT electives (1 credit):
   Two of:
   - Any C- or D-level MAT courses (*)
   (*) For students wishing to pursue graduate studies in Mathematics or Statistics it is recommended that MATC37H3 be chosen as one of these two courses.

9. Upper-level STA electives (2 credits):
   Four of:
   - (ACTB47H3) Introductory Life Contingencies
   - Any C- or D-level STA course, excluding STAD29H3

C. Teaching Stream
   This stream requires a total of 26 courses (13.0 credits).
   In addition to the core requirements 1-4 common to all streams, 11 other distinct courses must be chosen, satisfying all of the following requirements:

5. Algebra, analysis, and geometry (1.5 credits):
   - MATC15H3 Introduction to Number Theory
   - MATD01H3 Fields and Groups
   - MATD02H3 Classical Plane Geometries and their Transformations

6. Discrete mathematics (0.5 credit):
   One of:
   - MATC32H3 Graph Theory and Algorithms for its Applications
   - MATC44H3 Introduction to Combinatorics

7. MAT electives (1.5 credits):
   Three of:
   - C- or D-level MAT courses
8. MAT/STA/CSC electives (2.0 credits):

Four of:

- C- or D-level MAT, STA, CSC courses, excluding STAD29H3

It is recommended that students obtain a TA-ship within the Department of Computer and Mathematical Sciences.

SPECIALIST (CO-OPERATIVE) PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies: E. Moore (416-287-7267) Email: emoore@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Program Objectives

This program combines the coursework of the Specialist Program in Mathematics described above with paid work terms in public and private enterprises. It shares the goals and structure of the Specialist Program in Mathematics, including its three streams (Comprehensive, Statistics, and Teaching), but complements study of the subject with considerable work experience.

Admission Requirements

Refer to the Program Admission requirements for the Specialist Program in Mathematics described above and the Co-operative Programs section in this Calendar. Students entering this program after first year must have a CGPA of at least 2.75.

Program Requirements

To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

Work Term Requirements

Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.

Course Requirements

The Co-operative Program can be taken in conjunction with any of the streams in the Specialist Program in Mathematics. The course requirements of the Co-operative Specialist Program in Mathematics are identical to those of the Specialist Program in Mathematics described above.

MAJOR PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies:
N. Breuss (416-287-7226) Email: n.breuss@utoronto.ca

Program Objectives

This program provides a solid foundation in basic areas of mathematics, especially those with applications in other disciplines. This program is intended to be combined with other programs, typically a major program in another discipline.

Program Requirements

This stream requires a total of 17 distinct courses or (8.5 credits), chosen so as to satisfy all of the following requirements:

1. Foundational courses - 5.5 credits as follows:
   [MATA67H3 or CSCA67H3 Discrete Mathematics]
   MATA23H3 Linear Algebra I
   [MATA30H3 Calculus I for Physical Sciences OR MATA31H3 Calculus I for Mathematical Sciences]
   [MATA36H3 Calculus II for Physical Sciences OR MATA37H3 Calculus II for Mathematical Sciences (*)]
   CSCA08H3 Introduction to Computer Science I
   MATB24H3 Linear Algebra II
   MATB41H3 Techniques of the Calculus of Several Variables I
   MATB42H3 Techniques of the Calculus of Several Variables II
   MATB44H3 Differential Equations I
   STAB52H3 Introduction to Probability
   [MATC01H3 Groups and Symmetry OR MATC15H3 Introduction to Number Theory]

   (*) MATA31H3 is required for MATA37H3

2. Further analysis courses - 1.0 credit form the following:
   MATB43H3 Introduction to Analysis
   MATC27H3 Introduction to Topology
   MATC34H3 Complex Variables
   MATC37H3 Introduction to Real Analysis
   MATC46H3 Differential Equations II
MATD34H3 Complex Variables II

3. Further algebra, geometry, and discrete mathematics courses - 1.0 credit from the following:
   - MATC01H3 Groups and Symmetry
   - MATC09H3 Introduction to Mathematical Logic
   - MATC15H3 Introduction to Number Theory
   - MATC32H3 Graph Theory and Algorithms for its Applications
   - MATC44H3 Introduction to Combinatorics
   - MATC63H3 Differential Geometry
   - MATD01H3 Fields and Groups
   - MATD02H3 Classical Plane Geometries and their Transformations

4. Elective courses - 1.0 credit from the following:
   - MATB61H3 Linear Programming and Optimization
   - STAB57H3 Introduction to Statistics
   - any C- or D-level MAT, STA, or CSC course, excluding STAD29H3

**Recommended Writing Course:** Students are urged to take a course from the following list of courses by the end of their second year.


**MAJOR (CO-OPERATIVE) PROGRAM IN MATHEMATICS (SCIENCE)**

- **Supervisor of Studies:** N. Breuss (416-287-7226) Email: n.breuss@utoronto.ca
- **Co-op Contact:** askcoop@utsc.utoronto.ca

**Program Objectives**

This program combines the coursework of the Major Program in Mathematics described above with paid work terms in public and private enterprises. It shares the goals and structure of the Major Program in Mathematics, but complements study of the subject with considerable work experience.

**Admission Requirements**

Refer to the Program Admission requirements for the Major Program in Mathematics described above and the Co-operative Programs section in this Calendar. Students entering this program after first year must have a CGPA of at least 2.75.

**Program Requirements**

To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

**Work Term Requirements**

Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.

**Course Requirements**

The course requirements of the Co-operative Major Program in Mathematics are identical to those of the Major Program in Mathematics described above.

**Mathematics Courses**

**MATA02H3 The Magic of Numbers**

A selection from the following topics: the number sense (neuroscience of numbers); numerical notation in different cultures; what is a number; Zeno’s paradox; divisibility, the fascination of prime numbers; prime numbers and encryption; perspective in art and geometry; Kepler and platonic solids; golden mean, Fibonacci sequence; elementary probability.


Breadth Requirement: Quantitative Reasoning

**MATA23H3 Linear Algebra I**

Systems of linear equations, matrices, Gaussian elimination; basis, dimension; dot products; geometry to $\mathbb{R}^n$; linear transformations; determinants, Cramer’s rule; eigenvalues and eigenvectors, diagonalization.

Prerequisite: Grade 12 Calculus and Vectors or [Grade 12 Advanced Functions and Introductory Calculus & Geometry and Discrete Mathematics]

Exclusion: MAT223H

Breadth Requirement: Quantitative Reasoning
**MAT29H3 Calculus I for the Life Sciences**
A course in differential calculus for the life sciences. Algebraic and transcendental functions; semi-log and log-log plots; limits of sequences and functions, continuity; extreme value and intermediate value theorems; approximation of discontinuous functions by continuous ones; derivatives; differentials; approximation and local linearity; applications of derivatives; antiderivatives and indefinite integrals.
Prerequisite: Grade 12 Calculus and Vectors
Breadth Requirement: Quantitative Reasoning

**MAT30H3 Calculus I for Physical Sciences**
Prerequisite: Grade 12 Calculus and Vectors
Exclusion: (MAT20H3), (MAT21H3), MAT31H3, MAT32H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Breadth Requirement: Quantitative Reasoning

**MAT31H3 Calculus I for Mathematical Sciences**
A conceptual introduction to Differential Calculus of algebraic and transcendental functions of one variable; focus on logical reasoning and fundamental notions; first introduction into a rigorous mathematical theory with applications. Course covers: real numbers, set operations, supremum, infimum, limits, continuity, Intermediate Value Theorem, derivative, differentiability, related rates, Fermat's, Extreme Value, Rolle's and Mean Value Theorems, curve sketching, optimization, and antiderivatives.
Prerequisite: Grade 12 Calculus and Vectors
Exclusion: (MAT20H3), (MAT21H3), MAT30H3, MAT32H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Breadth Requirement: Quantitative Reasoning

**MAT32H3 Calculus for Management I**
This is a calculus course with most examples and applications of an economic nature. Topics to be covered: introduction to financial mathematics; continuous functions including exponential and logarithmic functions with applications to finance; differential calculus of one variable; marginal analysis; optimization of single variable functions; techniques of integration.
Prerequisite: Grade 12 Calculus and Vectors
Exclusion: (MAT20H3), (MAT21H3), MAT30H3, MAT31H3, MAT123H, MAT125H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Breadth Requirement: Quantitative Reasoning

**MAT33H3 Calculus for Management II**
This course will introduce the students to multivariable calculus and linear algebra. Topics will include: linear programming (geometric); matrix algebra; multi-variable functions; contour maps; partial and total differentiation; optimization of multi-variable functions; optimization of constrained multi-variable functions; Lagrange multipliers.
Prerequisite: MAT32H3
Breadth Requirement: Quantitative Reasoning

**MAT35H3 Calculus II for Biological Sciences**
A calculus course emphasizing examples and applications in the biological and environmental sciences. Discrete probability; basic statistics: hypothesis testing, distribution analysis. Basic calculus: extrema, growth rates, diffusion rates; techniques of integration; differential equations; population dynamics; vectors and matrices in 2 and 3 dimensions; genetics applications.
Note: This course will not satisfy the Mathematics requirements for any Program in Computer and Mathematical Sciences, nor will it normally serve as a prerequisite for further courses in Mathematics. Students who are not sure which Calculus II course they should choose are encouraged to consult with the supervisor(s) of Programs in their area(s) of interest.
Prerequisite: MAT30H3 or MAT31H3
Breadth Requirement: Quantitative Reasoning

**MAT36H3 Calculus II for Physical Sciences**
This course is intended to prepare students for the physical sciences. Topics to be covered include: techniques of integration, Newton's method, approximation of functions by Taylor polynomials, numerical methods of integration, complex numbers, sequences, series, Taylor series, differential equations.
Prerequisite: MAT30H3 or MAT31H3
Exclusion: (MAT21H3), MAT33H3, MAT35H3, MAT37H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y
Breadth Requirement: Quantitative Reasoning

**MAT37H3 Calculus II for Mathematical Sciences**
A rigorous introduction to Integral Calculus of one variable and infinite series; strong emphasis on combining theory and applications, further developing of tools for mathematical analysis. Riemann Sum, definite integral, Fundamental Theorem of Calculus, techniques of integration, improper integrals, numerical integration, sequences and series, absolute and conditional convergence of series, convergence tests for series, Taylor polynomials and series, power series and applications.
Prerequisite: MAT31H3 and [MAT67H3 or CSCA67H3]
Breadth Requirement: Quantitative Reasoning

**MAT67H3 Discrete Mathematics**
Introduction to discrete mathematics: Elementary combinatorics; discrete probability including conditional probability and independence; graph theory including trees, planar graphs, searches and traversals, colouring. The course emphasizes topics of relevance to computer science, and exercises problem-solving skills and proof techniques such as well ordering, induction, contradiction, and counterexample.
Same as CSCA67H3
Prerequisite: Grade 12 Calculus and Vectors and one other Grade 12 mathematics course
Exclusion: CSCA67H3, (CSCA65H3), CSC165H, CSC240H, MAT102H
Recommended Preparation: CSCA08H3 or CSCA20H3
Breadth Requirement: Quantitative Reasoning
**MATB24H3 Linear Algebra II**
Fields, vector spaces over a field, linear transformations; inner product spaces, coordinatization and change of basis; diagonalizability, orthogonal transformations, invariant subspaces, Cayley-Hamilton theorem; hermitian inner product, normal, self-adjoint and unitary operations. Some applications such as the method of least squares and introduction to coding theory.
Prerequisite: MATA23H3 or MAT223H
Exclusion: MAT224H
Breadth Requirement: Quantitative Reasoning

**MATB41H3 Techniques of the Calculus of Several Variables I**
Partial derivatives, gradient, tangent plane, Jacobian matrix and chain rule, Taylor series: extremal problems, extremal problems with constraints and Lagrange multipliers, multiple integrals, spherical and cylindrical coordinates, law of transformation of variables.
Prerequisite: [MATA23H3 or MAT223H] & [[MATA36H3 or MATA37H3] or MAT137Y or MAT157Y]
Exclusion: MAT232H, MAT235Y, MAT237Y, MAT257Y
Breadth Requirement: Quantitative Reasoning

**MATB42H3 Techniques of the Calculus of Several Variables II**
Fourier series. Vector fields in \(\mathbb{R}^2\), Divergence and curl, curves, parametric representation of curves, path and line integrals, surfaces, parametric representations of surfaces, surface integrals. Green’s, Gauss’ and Stokes’ theorems will also be covered. An introduction to differential forms, total derivative.
Prerequisite: MATB41H3
Exclusion: MAT235Y, MAT237Y, MAT257Y, MAT368H
Breadth Requirement: Quantitative Reasoning

**MATB43H3 Introduction to Analysis**
Generalities of sets and functions, countability. Topology and analysis on the real line: sequences, compactness, completeness, continuity, uniform continuity. Topics from topology and analysis in metric and Euclidean spaces. Sequences and series of functions, uniform convergence.
Prerequisite: [MATA37H3 or MAT137Y] & MATB24H3
Corequisite: MATB42H3
Exclusion: MAT246Y
Breadth Requirement: Quantitative Reasoning

**MATB44H3 Differential Equations I**
Ordinary differential equations of the first and second order, existence and uniqueness; solutions by series and integrals; linear systems of first order; non-linear equations; difference equations.
Prerequisite: [MATA36H3 or MATA37H3] & MATA23H3
Corequisite: MATB41H3
Exclusion: MAT244H, MAT267H
Breadth Requirement: Quantitative Reasoning

**MATB61H3 Linear Programming and Optimization**
Linear programming, simplex algorithm, duality theory, interior point method; quadratic and convex optimization, stochastic programming; applications to portfolio optimization and operations research.
Prerequisite: MATA23H3 and MATB41H3
Exclusion: APM236H
Breadth Requirement: Quantitative Reasoning

**MATC01H3 Groups and Symmetry**
Prerequisite: [MATA36H3 or MATA37H3] and [MATB24H3 or MAT224H]
Exclusion: MAT301H, MAT347Y
Breadth Requirement: Quantitative Reasoning

**MATC09H3 Introduction to Mathematical Logic**
Predicate calculus. Relationship between truth and provability: Gödel's completeness theorem. First order arithmetic as an example of a first-order system. Gödel's incompleteness theorem; outline of its proof. Introduction to recursive functions.
Prerequisite: MATB24H3 & [MATB43H3 or CSCB36H3]
Exclusion: MAT309H, CSC438H
Breadth Requirement: Quantitative Reasoning

**MATC15H3 Introduction to Number Theory**
Elementary topics in number theory; arithmetic functions; polynomials over the residue classes modulo \(m\), characters on the residue classes modulo \(m\); quadratic reciprocity law, representation of numbers as sums of squares.
Prerequisite: MATB24H3 and MATB41H3
Exclusion: MAT315H
Breadth Requirement: Quantitative Reasoning

**MATC16H3 Coding Theory and Cryptography**
The main problems of coding theory and cryptography are defined. Classic linear and non-linear codes. Error correcting and decoding properties. Cryptanalysis of classical ciphers from substitution to DES and various public key systems [e.g. RSA] and discrete logarithm based systems. Needed mathematical results from number theory, finite fields, and complexity theory are stated.
Prerequisite: MATB24H3 and MATC15H3 and STAB52H3
Breadth Requirement: Quantitative Reasoning

**MATC27H3 Introduction to Topology**
Prerequisite: MATB24H3 & MATB43H3
Exclusion: MAT327H
Breadth Requirement: Quantitative Reasoning

**MATC32H3 Graph Theory and Algorithms for its Applications**
Graphs, subgraphs, isomorphism, trees, connectivity, Euler and Hamiltonian properties, matchings, vertex and edge colourings, planarity, network flows and strongly regular graphs; applications to such problems as timetabling, personnel assignment, tank form scheduling, traveling salesmen, tournament scheduling, experimental design and finite geometries.
Prerequisite: [MATB24H3 or CSCB36H3] & at least one other B-level course in Mathematics or Computer Science
Breadth Requirement: Quantitative Reasoning
MATC34H3 Complex Variables
Theory of functions of one complex variable, analytic and meromorphic functions. Cauchy's theorem, residue calculus, conformal mappings, introduction to analytic continuation and harmonic functions.
Prerequisite: MATB42H3
Exclusion: MAT334H
Breadth Requirement: Quantitative Reasoning

MATC37H3 Introduction to Real Analysis
Prerequisite: MAT337H, (MATC38H3)
Recommended Preparation: MATC27H3
Breadth Requirement: Quantitative Reasoning

MATC44H3 Introduction to Combinatorics
Basic counting principles, generating functions, permutations with restrictions. Fundamentals of graph theory with algorithms; applications (including network flows). Combinatorial structures including block designs and finite geometries.
Prerequisite: MATB24H3
Exclusion: MAT344H
Breadth Requirement: Quantitative Reasoning

MATC46H3 Differential Equations II
Sturm-Liouville problems, Green's functions, special functions (Bessel, Legendre), partial differential equations of second order, separation of variables, integral equations, Fourier transform, stationary phase method.
Prerequisite: MATB44H3
Corequisite: MATB42H3
Exclusion: APM346H
Breadth Requirement: Quantitative Reasoning

MATC58H3 An Introduction to Mathematical Biology
Mathematical analysis of problems associated with biology, including models of population growth, cell biology, molecular evolution, infectious diseases, and other biological and medical disciplines. A review of mathematical topics: linear algebra (matrices, eigenvalues and eigenvectors), properties of ordinary differential equations and difference equations.
Prerequisite: MATB44H3
Breadth Requirement: Quantitative Reasoning

MATC63H3 Differential Geometry
Curves and surfaces in Euclidean 3-space. Serret-Frenet frames and the associated equations, the first and second fundamental forms and their integrability conditions, intrinsic geometry and parallelism, the Gauss-Bonnet theorem.
Prerequisite: MATB43H3
Exclusion: MAT363H
Breadth Requirement: Quantitative Reasoning

MATC82H3 Mathematics for Teachers
The course discusses the Mathematics curriculum (K-12) from the following aspects: the strands of the curriculum and their place in the world of Mathematics, the nature of proofs, the applications of Mathematics, and its connection to other subjects.
Prerequisite: [MATA67H3 or CSCA67H3 or (CSCA65H3)] and MATA23H3 and [MATA37H3 or MATA36H3]
Exclusion: MAT382H
Breadth Requirement: Quantitative Reasoning

MATC90H3 Beginnings of Mathematics
Mathematical problems which have arisen repeatedly in different cultures, e.g. solution of quadratic equations, Pythagorean theorem; transmission of mathematics between civilizations; high points of ancient mathematics, e.g. study of incommensurability in Greece, Pell's equation in India.
Prerequisite: One Grade 12 Mathematics course & 5.0 full university courses
Exclusion: MAT390H
Breadth Requirement: Quantitative Reasoning

MATD01H3 Fields and Groups
Abstract group theory: Sylow theorems, groups of small order, simple groups, classification of finite abelian groups. Fields and Galois theory: polynomials over a field, field extensions, constructibility; Galois groups of polynomials, in particular cubics; insolvability of quintics by radicals.
Prerequisite: MATC01H3
Exclusion: (MAT302H), MAT347Y, (MATC02H3)
Recommended Preparation: MATC34H3
Breadth Requirement: Quantitative Reasoning

MATD02H3 Classical Plane Geometries and their Transformations
An introduction to geometry with a selection of topics from the following: symmetry and symmetry groups, finite geometries and applications, non-Euclidean geometry.
Prerequisite: MATC22H3
Corequisite: MATC01H3
Exclusion: MAT402H, (MAT365H), (MATC25H3)
Breadth Requirement: Quantitative Reasoning

MATD10H3 Topics in Mathematics
A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.
Prerequisite: MATC01H3 and [(MATC35H3) or MATC37H3] and [MATC15H3 or MATD02H3]

MATD11H3 Topics in Mathematics
A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.
Prerequisite: MATC01H3 and [(MATC35H3) or MATC37H3] and [MATC15H3 or MATD02H3]

MATD12H3 Topics in Mathematics
A variety of topics from geometry, analysis, combinatorics, number theory and algebra, to be chosen by the instructor.
Prerequisite: MATC01H3 and [(MATC35H3) or MATC37H3] and [MATC15H3 or MATD02H3]

MATD34H3 Complex Variables II
Applications of complex analysis to geometry, physics and number theory. Fractional linear transformations and the Lorentz group. Solution to the Dirichlet problem by conformal mapping and the Poisson kernel. The Riemann mapping theorem. The prime number theorem.
Prerequisite: MATC34H3
Exclusion: MAT354H, (MATC65H3)
Breadth Requirement: Quantitative Reasoning
MATD92H3 Mathematics Project
A significant project in any area of mathematics. The project may be undertaken individually or in small groups. This course is offered by arrangement with a mathematics faculty member. This course may be taken in any session and the project must be completed by the last day of classes in the session in which it is taken.
Prerequisite: [1.5 credits at the C-level in MAT courses] and [permission of the Supervisor of Studies] and [a CGPA of at least 3.0 or enrolment in a Mathematics Subject POSt]
Breadth Requirement: Quantitative Reasoning
NOTE: Enrolment procedures: the project supervisor’s note of agreement must be presented to the Supervisor of Studies who will issue permission for registration.

MATD93H3 Mathematics Project
A significant project in any area of mathematics. The project may be undertaken individually or in small groups. This course is offered by arrangement with a mathematics faculty member. This course may be taken in any session and the project must be completed by the last day of classes in the session in which it is taken.
Prerequisite: [1.5 credits at the C-level in MAT courses] and [permission of the Supervisor of Studies] and [a CGPA of at least 3.0 or enrolment in a Mathematics Subject POSt]
Breadth Requirement: Quantitative Reasoning
NOTE: Enrolment procedures: the project supervisor’s note of agreement must be presented to the Supervisor of Studies who will issue permission for registration.

MATD94H3 Readings in Mathematics
Independent study under direction of a faculty member.
Prerequisite: [1.5 credits at the C-level in MAT courses] and [permission of the Supervisor of Studies] and [a CGPA of at least 3.0 or enrolment in a Mathematics Subject POST]
NOTE: Enrolment procedures: the project supervisor’s note of agreement must be presented to the Supervisor of Studies who will issue permission for registration.

MATD95H3 Readings in Mathematics
Independent study under direction of a faculty member.
Prerequisite: [1.5 credits at the C-level in MAT courses] and permission of the Supervisor of Studies] and [a CGPA of at least 3.0 or enrolment in a Mathematics Subject POST]
NOTE: Enrolment procedures: the project supervisor’s note of agreement must be presented to the Supervisor of Studies who will issue permission for registration.
Media Studies

Faculty List

- R. Bai, Ph.D. (Illinois), Assistant Professor
- G. Graffam, M.A., Ph.D. (Toronto), Lecturer
- M. Petit, M.A., Ph.D. (Colorado), Associate Professor, Teaching Stream

Program Director: M. Petit  Email: mepetit@utsc.utoronto.ca

Media is ubiquitous in contemporary society. Every aspect of human experience – the personal, social, economic, political, cultural, moral, and aesthetic – is mediated, and the distinction between everyday reality and media reality is becoming increasingly blurred for many. The institutions that produce, control, and disseminate media texts and images operate as “consciousness industries” that influence how we understand ourselves and the world around us. Simultaneously, new forms of media, made possible by digital technologies, are in the process of destabilizing these very institutions and understandings. Because of its importance to contemporary society, media has become a central topic of research in both humanities and social science fields. Media Studies draws from this broad and diverse range of academic scholarship to offer a theoretically engaged, historically informed, and culturally aware approach to the study of media.

The centrality of media as a means through which democratic discussion occurs in the public sphere points to the importance of media literacy skills in maintaining an informed citizenry. Media Studies offers theoretical and critical thinking tools to evaluate what it means to live in a highly mediated, media-focused visual and auditory culture. Gaining competency in the use and application of these tools is paramount to students’ individual empowerment. As media scholar W. James Potter has written:

“Becoming more media literate gives you a much clearer perspective to see the border between your real world and the world manufactured by the media. When you are media literate, you have clear maps to help you navigate better in the media world so that you can get to those experiences and information you want without becoming distracted by those things that harm you.” (Media Literacy, 2012)

Courses throughout the Media Studies curriculum emphasize critical thinking, writing, and media literacy skills. Students interested in Media Studies and Major (Joint) program in New Media Studies (see separate description in this Calendar) should take MDSA01H3 Introduction to Media Studies and MDSA02H3 History of Media and Technology in their first year to meet university breadth requirements and prepare for more advanced courses in Media Studies. MDSA01H3 covers a range of media theories and analytic tools useful for their explanatory power in understanding how media operates. MDSA02H3 surveys the development of media and their associated technologies, from Neolithic stone tokens as the first information storage device to the development of print, telegraphy, sound recording, film, radio, television, video gaming, and the internet. Taken in sequence, these courses introduce students to media studies as an academic discipline and provide necessary foundation and contextualization for subsequent courses, both required and elective.

MDSA01H3 is a prerequisite for MDSA02H3 and B- and C-level courses. Students are strongly advised to consult individual course descriptions to ensure they follow required prerequisites. Students not meeting prerequisite requirements may be removed from Media Studies courses. Students who intend to major or minor in Media Studies should also include ACMB01H3 among their first-year course selection.

Students planning to major or minor in Media Studies are strongly advised to meet with the program director during their second year for advice on completion of program requirements. In some instances, courses from other University of Toronto campuses or other institutions may be used to satisfy program requirements, but such substitutions must be pre-approved by the program director.

New Media Studies:
At the end of their first year, students who have completed MDSA01H3 and MDSA02H3 are eligible to apply to the Major (Joint) program in New Media Studies, which is a professionalization program that prepares students for careers in Web communication and new media industries. Students attend Centennial College during their second year to take practice-based courses on multimedia design for Web and mobile applications. During years three and four, New Media Studies students complete additional required coursework in Media Studies, a new media senior project, and an advanced seminar on the theory and practice of new media. For additional information, see the separate program description in this Calendar.

Media Studies Programs

MAJOR PROGRAM IN MEDIA STUDIES (ARTS)

Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete 8.0 full credits including 2.0 credits at the C- or D-level:

1. 1.5 credits:
ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
MDSA01H3 Introduction to Media Studies
MDSA02H3 History of Media

2. 0.5 credit from the following:
MDSB05H3 Media and Globalization
MDSB25H3 Political Economy of Media

3. 0.5 credit from the following:
MDSB61H3 Mapping New Media
MDSB62H3 Visual Culture and Communication
MDSB63H3 Sound and Visual Media

4. 1.0 credit from the following:
MDSC01H3 Theories in Media Studies
MDSC02H3 Media, Identities and Politics
MDSC53H3 Anthropology of Media and Publics

5. 0.5 credit from the following:
MDSD01H3 Senior Seminar: Topics in Media and Arts
MDSD02H3 Senior Seminar: Topics in Media and Society

6. 3.5 additional credits in MDS courses

7. 0.5 credit from the following:
ENGB70H3 Introduction to Cinema
ENGB75H3 Cinema and Modernity I
ENGB76H3 Cinema and Modernity II
ENGC56H3 Literature and Media: From Page to Screen
HISB12H3 The Classical World in Film
HISC08H3 Colonialism on Film
PSCA01H3 Communicating Science: Film, Media, Journalism, and Society
SOCC44H3 Media and Society
VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts
(VPMB97H3) Film Music
VPMC97H3 Music, Technologies, Media
WSTB13H3 Gender, Media and Culture
WSTC16H3 Criminal Women: Gender, Justice and the Media
WSTC22H3 Women and Film
NOTE: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).

MINOR PROGRAM IN MEDIA STUDIES (ARTS)

Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete 4.0 credits including 1.0 credit at the C- or D-level:

1. 1.0 credit from the following:
ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
MDSA01H3 Introduction to Media Studies

2. 0.5 credit from the following:
MDSA02H3 History of Media
MDSB05H3 Media and Globalization

3. 0.5 credit from the following:
MDSB61H3 Mapping New Media
MDSB62H3 Visual Culture and Communication
MDSB63H3 Sound and Visual Media

4. 2.0 additional credit in MDS courses

Media Studies Courses

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Media Studies

MDSA01H3  Introduction to Media Studies
Introduces students to key terms and concepts in media studies and provides an overview of theoretical and critical understandings of media. Students develop their understanding of the political, economic, social and cultural contexts in which mediated images and texts are produced, distributed, and consumed.
Exclusion: (NMEA20H3)
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA02H3  History of Media
This course surveys the history of media and communication from the development of writing through the printing press, newspaper, telegraph, radio, film, television and internet. Students examine the complex interplay among changing media technologies and cultural, political and social changes, from the rise of a public sphere to the development of highly-mediated forms of self identity.
Prerequisite: MDSA01H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA01H3  Human, Animal, Machine
What makes humans humans, animals animals, and machines machines? This course probes the leaky boundaries between these categories through an examination of various media drawn from science fiction, contemporary art, film, TV, and the critical work of media and posthumanist theorists on cyborgs, genetically-modified organisms, and other hybrid creatures.
Corequisite: MDSA01H3
Exclusion: (IEEB01H3)
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA02H3  Anthropology of Language and Media: An Introduction
Anthropology studies language and media in ways that show the impact of cultural context. This course introduces this approach and also considers the role of language and media with respect to intersecting themes: ritual, religion, gender, race/ethnicity, power, nationalism, and globalization. Class assignments deal with lectures, readings, and students' examples.
Same as ANTB21H3
Prerequisite: MDSA01H3 or ANTA02H3
Exclusion: ANTB21H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA03H3  Advertising and Consumer Culture
This course introduces students to the study of advertising as social communication and provides a historical perspective on advertising's role in the emergence and perpetuation of "consumer culture". The course examines the strategies employed to promote the circulation of goods as well as the impact of advertising on the creation of new habits and expectations in everyday life.
Prerequisite: MDSA01H3 or SOCB58H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA05H3  Media and Globalization
This course introduces students to the variety of ways cultural and social theorists have addressed notions of "globalization" and the media. The course focuses on media systems and practices in the non-western world, including Asia, Latin America, and the Middle East.
Same as GASB05H3
Prerequisite: MDSA01H3 and any 4.0 credits
Exclusion: GASB05H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA10H3  Technology, Culture and Society
This course considers technology as an everyday social practice. It challenges deterministic ideas of technology as a cause of social change and examines theories that understand technology and culture as mutually constituted. Perspectives include actor-network theory, critical theory of technology, feminist technology studies, media archaeology, and cyber-, post- and transhumanism.
Prerequisite: MDSA01H3 and MDSA02H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA25H3  Political Economy of Media
This course applies concepts and principles developed by political economy theorists to the economic structure and policies that influence communication and media systems. These concepts are used to analyze the major media industries, including print, radio, television, film, video, recorded music, video-games, telecommunications, online communication, and advertising.
Prerequisite: MDSA01H3 and MDSA02H3
Breadth Requirement: Arts, Literature & Language

MDSA61H3  Mapping New Media
This course introduces students to the key terms and concepts in new media studies as well as approaches to new media criticism. Students examine the myriad ways that new media contribute to an ongoing reformulation of the dynamics of contemporary society, including changing concepts of community, communication, identity, privacy, property, and the political.
Prerequisite: MDSA01H3 and MDSA02H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSA62H3  Visual Culture and Communication
Visual Culture studies the construction of the visual in art, media, technology and everyday life. Students learn the tools of visual analysis; investigate how visual depictions such as YouTube and advertising structure and convey ideologies; and study the institutional, economic, political, social, and market factors in the making of contemporary visual culture.
Prerequisite: MDSA01H3 and MDSA02H3
Exclusion: (NMEB20H3)
Breadth Requirement: Arts, Literature & Language

MDSA63H3  Sound and Visual Media
This course explores the importance of sound and sound technology to visual media practices by considering how visuality in cinema, video, television, gaming, and new media art is organized and supported by aural techniques such as music, voice, architecture, and sound effects.
Prerequisite: MDSA01H3 and MDSA02H3
Breadth Requirement: Arts, Literature & Language

MDSC01H3  Theories in Media Studies
This is an advanced seminar for third and fourth year students on theories applied to the study of media.
Prerequisite: ACMB01H3 and 2.0 credits at the B-level in MDS courses
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC02H3  Media, Identities and Politics
This course explores the centrality of mass media such as television, film, the Web, and mobile media in the formation of multiple identities and the role of media as focal points for various cultural and political contestations.
Prerequisite: ACMB01H3 and 2.0 credits at the B-level in MDS courses
Breadth Requirement: Social & Behavioural Sciences
MDSC40H3 Chinese Media and Politics
This course examines the complex and dynamic interplay of media and politics in contemporary China and the role of the government in this process.
Same as GASC40H3
Prerequisite: 4.0 credits including ACMB01H3
Exclusion: GASC40H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC41H3 Media and Popular Culture in East Asia
This course introduces students to media industries and commercial popular cultural forms in East Asia. Topics include reality TV, TV dramas, anime and manga, as well as issues such as regional cultural flows, global impact of Asian popular culture, and the localization of global media in East Asia.
Same as GASC41H3
Prerequisite: 4.0 credits including ACMB01H3
Exclusion: GASC41H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC36H3 Media Ethics
Introduces students to ethical issues in media. Students learn theoretical aspects of ethics and apply them to media industries and practices in the context of advertising, public relations, journalism, mass media entertainment, and online culture.
Same as JOUC63H3
Prerequisite: ACMB01H3 and ([MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3])
Exclusion: JOUC63H3
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC64H3 Media and Technology
Media are central to organizing cultural discourse about technology and the future. This course examines how the popularization of both real and imagined technologies in various media forms contribute to cultural attitudes that attend the introduction and social diffusion of new technologies.
Prerequisite: ACMB01H3 and 2.0 credits at the B-level in MDS courses
Breadth Requirement: Arts, Literature & Language

MDSC65H3 Online Games and Virtual Worlds
This course introduces students to the academic study of online games and virtual worlds. Students develop critical awareness and understanding of immersive virtual technologies and their implications for social, cultural, political and economic life. Classes will be conducted in the UTSC Innovation Media Lab, a virtual world and learning environment.
Prerequisite: ACMB01H3 and 2.0 credits at the B-level in MDS courses
Breadth Requirement: Arts, Literature & Language

MDSC61H3 Alternative Media
This course examines the history, organization and social role of a range of independent, progressive, and oppositional media practices. It emphasizes the ways alternative media practices, including the digital, are the product of and contribute to political movements and perspectives that challenge the status quo of mainstream consumerist ideologies.
Prerequisite: ACMB01H3 and [(2.0 credits at the B-level in MDS courses) or (2.0 credits at the B-level in JOU courses)]
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC62H3 Media and the World of Work
The course explores the relationships between journalism and the labour movement in Canada's present media environment. It examines how labour is perceived as a media issue and how labour stories are framed in mainstream media - what is reported, how it is reported, what isn't reported, and why. It also examines significant issues in Canadian labour history within a media studies context.
Same as JOUC62H3
Prerequisite: ACMB01H3 and ([MDSA01H3 and MDSB05H3] or [JOUA01H3 and JOUA02H3])
Exclusion: JOUC62H3
Breadth Requirement: Arts, Literature & Language

MDSC63H3 Media and Religion
The advancement of religious concepts and movements has consistently been facilitated - and contested - by contemporaneous media forms, and this course considers the role of media in the creation, development, and transmission of religion(s), as well as the challenges posed to modern religiosities in a digital era.
Prerequisite: ACMB01H3 and 2.0 credits at the B-level in MDS courses
Breadth Requirement: History, Philosophy & Cultural Studies

MDSC85H3 Movies, Music and Meaning
This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon.
Same as VPMC85H3
Prerequisite: ACMB01H3 and [(2.0 credits at the B-level in MDS courses) or (2.0 credits at the B-level in VPM courses)]
Exclusion: VPMC85H3
Enrollment Limits: 50
Breadth Requirement: Arts, Literature & Language
NOTE: No specialist knowledge in musicology or film studies required.

MDSD01H3 Senior Seminar: Topics in Media and Arts
This is a senior seminar that focuses on the connections among media and the arts. Students explore how artists use the potentials offered by various media forms, including digital media, to create new ways of expression. Topics vary.
Prerequisite: [3.0 credits in MDS courses, including 1.0 credit at the C-level]

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MDSD02H3  Senior Seminar: Topics in Media and Society
This is a senior seminar that focuses on media and society. It explores 
the social and political implications of media, including digital media, and 
how social forces shape their development. Topics vary.
Prerequisite: [3.0 credits in MDS courses, including 1.0 credit at the C-
level]
Music and Culture

Program Director: L. Tucker

We are surrounded by music in our daily life through everything from chance encounters on the street to planned attendance at popular music events and classical concerts. On occasion the music itself may seem incomprehensible because of how different it is from what we normally hear. Or it may be part of a multimedia art form such as film or video games, thereby creating a more complex sensory experience. In such varied soundscapes, there is much to learn about music and our world if we are able to appreciate the aural richness and subtleties of musical invention, and to understand the creative, cultural, historical and social contexts that shape music and its meaning.

Music and Culture offers innovative programs that focus on music as it is experienced and lived today in all its diversity and complexity. Here, music is studied in courses that draw on a broad range of theoretical perspectives and methodologies coupled with active listening and reflective practice in composition and performance. Our goal is to foster a critical understanding of music and culture in a global context, including opportunities for fieldwork and community music making.

Our programs lay the foundation for further studies at the undergraduate level as well as graduate studies in music and professional careers in areas related to music. They complement studies in many fields, including adult education and community development, arts management, city studies, health studies, historical and cultural studies, media arts, media studies, music education, psychology, sociology, studio, and visual studies. And they are ideally suited for those interested in music as part of lifelong learning and engagement.

Performance Courses
The following performance courses are available to all qualified students, alumni, staff and faculty, some on a non-credit basis. Entrance is by interview/audition held during Orientation and/or the first week of classes in Fall and Winter sessions. Details are posted on the bulletin board outside AA303 and at http://www.utsc.utoronto.ca/acm/sites/utsc.utoronto.ca.acm/files/docs/2014-15_EnsembleAuditionCourseInfo.pdf. Credit students should register for the course but will be admitted only upon successful completion of the interview/audition.

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<th>UTSC Performance Courses</th>
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<tr>
<td>String Orchestra: VPMA66H3; VPMA67H3; VPMB66H3; VPMB67H3; VPMC66H3; VPMC67H3</td>
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<tr>
<td>Small Ensemble: VPMA68H3; VPMA69H3; VPMB68H3; VPMB69H3; VPMC68H3; VPMC69H3</td>
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<td>Concert Choir: VPMA70H3; VPMA71H3; VPMB70H3; VPMB71H3; VPMC70H3; VPMC71H3</td>
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<tr>
<td>Concert Band: VPMA73H3; VPMA74H3; VPMB73H3; VPMB74H3; VPMC73H3; VPMC74H3</td>
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General Interest Courses

Planning a Program in Music
Music studies normally begin with VPMA93H3 and A-level performance courses, which serve as the foundation for more advanced studies. Students planning a Major or Minor in Music and Culture are strongly advised to meet with the Program Director at the start of their second year for advice on the completion of program requirements.

The program offers three areas of focus. Students are encouraged to develop depth of learning through study in one or two areas of focus as follows:

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<th>Areas of Focus Table:</th>
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<tr>
<td>Music and Society</td>
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Music and Culture

Music and Culture Programs

MAJOR PROGRAM IN MUSIC AND CULTURE (ARTS)

Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca

Program Requirements
Students are required to complete 8.0 credits as follows:
1. VPMA93H3 Listening to Music
   1.0 credit in Performance. Students must choose the graded option for this credit.
2. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
   VPMB82H3 Music in the Modern and Contemporary World
   VPMB88H3 Materials of Music I
   VPMB90H3 Materials of Music II
   VPMB84H3 Music of the World's Peoples
3. VPMD90H3 Critical Issues in Music and Society
4. 3.5 additional credits in Music and Culture (VPM) courses, at least 1.5 of which must be at the C- or D-level. Students who count Performance courses toward this requirement must choose the graded option and are limited to 2.0 Performance credits in addition to the courses counted under requirement #1. Students are encouraged to develop depth of learning through study in one or two areas of focus described above.
MINOR PROGRAM IN MUSIC AND CULTURE (ARTS)

Undergraduate Advisor: Email: music-program-supervisor@utsc.utoronto.ca

Program Requirements
Students are required to complete 4.0 full credits as follows:

1. VPMA93H3 Listening to Music
   0.5 credit in Performance. Students must choose the graded option for this credit
2. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
   [VPMB82H3 Music in the Modern and Contemporary World or VPMB84H3 Music of the World's Peoples]
   VPMB88H3 Materials of Music I
3. 1.5 additional credits in Music and Culture (VPM) courses, of which at least 1.0 credit must be at the C- and/or D-level. Students must consult with the Program Director regarding the selection of the courses to fulfill this program requirement.

Music and Culture Courses

**VPMA66H3 String Orchestra Ia**
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Exclusion: VPMA73H3-LEC02
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

**VPMA67H3 String Orchestra 1b**
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA66H3
Exclusion: VPMA74H3-LEC02
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

**VPMA68H3 Small Ensemble Ia**
The practical study of small ensemble performance, including public presentations and group recitals. Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Enrolment Limits: 40
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

**VPMA69H3 Small Ensemble Ib**
The practical study of small ensemble performance, including public presentations and group recitals. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Audition/interview required.
Prerequisite: VPMA68H3
Enrolment Limits: 40
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

**VPMA70H3 Concert Choir Ia**
The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Breadth Requirement: Arts, Literature & Language

**VPMA71H3 Concert Choir Ib**
A continuation of VPMA70H3.
The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA70H3
Breadth Requirement: Arts, Literature & Language

**VPMA73H3 Concert Band Ia**
The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Exclusion: VPMA92H3
Breadth Requirement: Arts, Literature & Language

**VPMA74H3 Concert Band Ib**
A continuation of VPMA73H3.
The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA73H3
Exclusion: VPMA92H3
Breadth Requirement: Arts, Literature & Language

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VPMA93H3 Listening to Music
An introduction to Western music through active listening and the consideration of practical, cultural, historical and social contexts that shape our aural appreciation of music. No previous musical experience is necessary.
Breadth Requirement: History, Philosophy & Cultural Studies

VPMA95H3 Elementary Musicianship I
A practical introduction to musicianship and music rudiments through the development of basic vocal or instrumental techniques and an emphasis on aural skills. This course is open to students with no musical training and background. It cannot be counted toward the requirements for Music programs.
Breadth Requirement: Arts, Literature & Language

VPMB01H3 Introduction to Community Music
Music within communities functions in ways that differ widely from formal models. Often the defining activity, it blurs boundaries between amateur, professional, audience and performer, and stresses shared involvement. Drawing upon their own experience, students will examine a variety of community practices and current research on this rapidly evolving area.
Prerequisite: VPMA93H3
Recommended Preparation: 0.5 credit in Music Performance courses
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMB66H3 String Orchestra IIa
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA67H3
Exclusion: VPMB73H3-LEC02
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMB67H3 String Orchestra IIb
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMB66H3
Exclusion: VPMB74H3-LEC02
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMB68H3 Small Ensemble IIa
The practical study of small ensemble performance, including public presentations and group recitals. Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA69H3
Enrolment Limits: 40
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMB69H3 Small Ensemble IIb
The practical study of small ensemble performance, including public presentations and group recitals. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Audition/interview required.
Prerequisite: VPMB68H3
Breadth Requirement: Arts, Literature & Language
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMB70H3 Concert Choir IIa
A continuation of VPMA71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA71H3
Breadth Requirement: Arts, Literature & Language

VPMB71H3 Concert Choir IIb
A continuation of VPMB70H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMB70H3
Breadth Requirement: Arts, Literature & Language

VPMB73H3 Concert Band IIa
A continuation of VPMA74H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMA74H3 or (VPMA92H3)
Exclusion: (VPMB92H3)
Breadth Requirement: Arts, Literature & Language

VPMB74H3 Concert Band IIb
A continuation of VPMB73H3. The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMB73H3
Exclusion: (VPMB92H3)
Breadth Requirement: Arts, Literature & Language
VPMB82H3 Music in the Modern and Contemporary World
An examination of art and popular music in Western society. Through deep listening and score study we investigate the cultural, historical, political and social contexts of music-making as experienced in the modern and contemporary world. Prerequisite: VPMA93H3 Corequisite: VPMB88H3 or (VPMA90H3) Exclusion: (VPMB89H3) Breadth Requirement: History, Philosophy & Cultural Studies

VPMB84H3 Music of the World’s Peoples
An introduction to music from different parts of the world, including folk, popular, religious and classical traditions. This course aims to help students appreciate and understand music as a global phenomenon, and its important role in social and cultural life. Audio-visual materials feature prominently. No previous musical experience is necessary. Exclusion: (VPMA99H3), MUS200H Recommended Preparation: VPMA93H3 Breadth Requirement: Social & Behavioural Sciences

VPMB88H3 Materials of Music I
The basic materials of music from the Middle Ages to the present, including elementary harmony, musical forms, introductory analytical and compositional techniques and aural training. Prerequisite: [VPMA95H3 or [Grade 12 Music or equivalent]] and [0.5 credit in Performance] Exclusion: (VPMA90H3) Breadth Requirement: Arts, Literature & Language

VPMB90H3 Materials of Music II
Further study of the basic materials of music with increased emphasis on composition. Prerequisite: VPMB88H3 Breadth Requirement: Arts, Literature & Language

VPMB91H3 Music and Technology
A comprehensive study of the technologies in common use in music creation, performance and teaching. This course is lab and lectured based. Prerequisite: VPMA93H3 Corequisite: VPMB88H3 Breadth Requirement: Arts, Literature & Language NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC66H3 String Orchestra Illa
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Prerequisite: VPMB67H3 Exclusion: VPMC73H3-LEC02 Breadth Requirement: Arts, Literature & Language NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC67H3 String Orchestra Illb
The practical study of instrumental ensemble performance in the String Orchestra setting. Audition/interview required. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Prerequisite: VPMC66H3 Exclusion: VPMC73H3-LEC02 Breadth Requirement: Arts, Literature & Language NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC68H3 Small Ensemble Illa
The practical study of small ensemble performance, including public presentations and group recitals. Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Prerequisite: VPMB69H3 Enrolment Limits: 40 Breadth Requirement: Arts, Literature & Language NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC69H3 Small Ensemble Illb
The practical study of small ensemble performance, including public presentations and group recitals. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Audition/interview required. Prerequisite: VPMC68H3 Breadth Requirement: Arts, Literature & Language NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC01H3 Exploring Community Music
Our local communities are rich with music-making engagement. Students will critically examine four distinct cases of community music in the Eastern GTA through the lenses of intergenerational music-making, music and social change, music and wellbeing, and interdisciplinary musical engagement. Off-campus site visits are required. Prerequisite: ACMBO1H3 and VPMB01H3 Recommended Preparation: 1.0 credit in Music Performance Breadth Requirement: Social & Behavioural Sciences NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMC70H3 Concert Choir Illa
A continuation of VPMB71H3. The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble. Prerequisite: VPMB71H3 Breadth Requirement: Arts, Literature & Language

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VPMC71H3 Concert Choir IIIb
A continuation of VPMC70H3.
The practical study of vocal ensemble performance. There are two available ensembles: Concert Choir (Section 01) and Jazz Choir (Section 02). Audition/Interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMC70H3
Breadth Requirement: Arts, Literature & Language

VPMC73H3 Concert Band IIIa
A continuation of VPMC74H3.
The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMC74H3 or (VPMB92H3)
Exclusion: (VPMC92H3)
Breadth Requirement: Arts, Literature & Language

VPMC74H3 Concert Band IIIb
A continuation of VPMC73H3.
The practical study of instrumental ensemble performance. There are four available ensembles: Concert Band (Section 01), String Orchestra (Section 02), Flute Choir (Section 03), and Jazz Band (Section 30). Audition/interview required. Students may participate in more than one ensemble concurrently with a limit of 3.0 credits in total. Students are normally expected to complete both Fall and Winter sessions (a and b) in the same ensemble.
Prerequisite: VPMC73H3
Exclusion: (VPMC92H3)
Breadth Requirement: Arts, Literature & Language

VPMC78H3 Balinese Gamelan: Performance and Context
An introduction to the repertory and performance of Balinese Gamelan. Combines practical music-making and academic study. Students will learn to play the Balinese Gamelan - an orchestra of bronze percussion instruments - and examine the integral function of gamelan in Balinese cultural, ceremonial, and religious life.
Prerequisite: ACMB01H3 and [VPMB84H3 or (VPMA99H3)] and [an additional 1.0 credit at the B-level in VPM courses]
Exclusion: (VPMC78H3)
Breadth Requirement: Arts, Literature & Language

VPMC85H3 Movies, Music and Meaning
This course examines the synergistic relationship between the moving image and music and how these synergies result in processes of meaning-making and communication. Drawing on readings in cultural theory, cultural studies, musicology and film studies, the course considers examples from the feature film, the Hollywood musical, and the animated cartoon.
Same as MDSC85H3
Prerequisite: ACMB01H3 and [2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in VPM courses]
Exclusion: MDSC85H3
Enrolment Limits: 50
Breadth Requirement: Arts, Literature & Language
NOTE: No specialist knowledge in musicology or film studies required.

VPMC88H3 Topics in Music and Culture
The investigation of an area of current interest and importance in musical scholarship. The topic to be examined will change from year to year and will be available in advance on the ACM department website.
Prerequisite: [ACMB01H3 and VPMB82H3 and VPMB84H3] and [an additional 0.5 credit at the B-level in VPM courses]
Breadth Requirement: History, Philosophy & Cultural Studies

VPMC89H3 Music and Identity
An inquiry into the politics of identity (gender, sexuality, race, class, etc.) in music.
Prerequisite: ACMB01H3 and VPMB82H3 and VPMB84H3 and [an additional 0.5 credit at the B-level in VPM courses]
Breadth Requirement: History, Philosophy & Cultural Studies

VPMC90H3 Materials of Music III
More advanced study of the materials of music with an emphasis on composition.
Prerequisite: VPMB90H3 and [an additional 1.0 credit at the B-level in VPM courses]
Breadth Requirement: Arts, Literature & Language

VPMC91H3 Electronic Music I
An introduction to understanding electronic, electroacoustic and computer generated music and developing creative skills in these media through theoretical, aesthetic, and practical perspectives. This course is lab and lecture based.
Prerequisite: ACMB01H3 and VPMB90H3 and [an additional 1.0 credit at the B-level in VPM courses]
Recommended Preparation: VPMB82H3
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPMC93H3 Music and Imagination
An exploration of how music creatively reflects and inspires our sense of self, place and community. We consider various sites of musical imagination and the genres that intersect with them, including science fiction and fantasy literature, film, and video games.
Prerequisite: ACMB01H3 and [VPMB82H3 or VPMB84H3] and [an additional 1.0 credit at the B-level in VPM courses]
Exclusion: VIC370H1
Breadth Requirement: History, Philosophy & Cultural Studies

VPMC94H3 Jazz
A history of jazz from its African and European roots to present day experiments. Surveys history of jazz styles, representative performers and contexts of performance.
Prerequisite: [ACMB01H and VPMB82H3] and [an additional 1.0 credit at the B-level in VPM courses]
Exclusion: (VPMB94H3)
Breadth Requirement: History, Philosophy & Cultural Studies

VPMC95H3 Musical Diasporas
This course examines the unique role of music and the arts in the construction and maintenance of transnational identity in the diaspora.
Examples under study will cover a wide range of communities (e.g. Asian, Caribbean and African) and places.
Prerequisite: ACMB01H3 and [VPMB84H3 or (VPMA99H3)] and [an additional 1.0 credit at the B-level in VPM courses]
Breadth Requirement: Social & Behavioural Sciences
VPMC97H3 Music, Technologies, Media
An exploration of music's relationships to media and technology, and how these shape musical practices, consumption, and understanding in historical and contemporary contexts. Topics include music printing, music journalism, development of acoustic, mechanical, and electronic instruments, the recording industry, radio, electroacoustic and computer composition, and digital dissemination via the internet.
Prerequisite: ACMB01H3 and [2.0 credits at the B-level in VPM courses] or [2.0 credits at the B-level in MDS courses]]
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: No specialist knowledge in music or media studies required.

VPMD01H3 Senior Seminar: Music in Our Communities
Through advanced studies in community music, students will combine theory and practice through intensive weekly seminar-style discussions and an immersive service-learning placement with a community music partner from the Eastern GTA. Off-campus site visits are required.
Prerequisite: VPMC01H3 and 1.0 credit in Music Performance
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

VPMD80H3 Independent Study in Music
A directed research, composition or performance course for students who have demonstrated a high level of academic maturity and competence. Students in performance combine a directed research project with participation in one of the performance ensembles.
Note: Students must submit a proposed plan of study for approval in the term prior to the beginning of the course, and must obtain consent from the supervising instructor and the Music Program Director.
Prerequisite: A minimum overall average of B+ in VPM courses, and at least 1.0 full credit in music at the C-level. Students in the Composition option must also have completed VPMC90H3. Students in the Performance/research option must complete at least one course in performance at the C-level.

VPMD91H3 Electronic Music II
More advanced study in electronic, electroacoustic and computer-generated music with emphasis on electroacoustic composition. This course is primarily lab-based.
Prerequisite: VPMC91H3 and [an additional 0.5 credit at the C-level in VPM courses]
Breadth Requirement: Arts, Literature & Language

VPMD90H3 Critical Issues in Music and Society
An investigation into significant issues in music and society. Topics will vary but may encompass art, popular and world music. Issues may include music's relationship to technology, commerce and industry, identity, visual culture, and performativity. Through readings and case studies we consider music's importance to and place in society and culture.
Prerequisite: VPMB82H3 and VPMB84H3 and [1.0 credit at the C-level in VPM courses]
Breadth Requirement: History, Philosophy & Cultural Studies
Neuroscience

Faculty List

- R. Boonstra, B.Sc. (Calgary), Ph.D. (British Columbia), Professor
- I.R. Brown, B.Sc. (Carleton), Ph.D. (Texas), Professor
- J.S. Cant, B.A., M.Sc., Ph.D. (Western), Assistant Professor
- S. Erb, B.Sc. (Wilfrid Laurier), M.A., Ph.D. (Concordia), Associate Professor
- J.W. Gurd, B.A. (Mount Allison), Ph.D. (McGill), Professor Emeritus
- D.W. Haley, B.A. (Annapolis), M.A. (San Francisco), Ph.D. (Albuquerque), Associate Professor
- M. Inzlicht, B.A. (McGill), M.Sc., Ph.D. (Brown), Professor
- R. Ito, B.A. (Oxford), Ph.D. (Cambridge), Assistant Professor
- J.C. LeBoutillier, B.Sc., M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- A.C.H. Lee, B.A. (Oxford), Ph.D. (Cambridge), Assistant Professor
- A.C. Mason, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), Associate Professor
- P. McGowan, B.Sc. (Concordia), M.A., Ph.D. (Duke), Assistant Professor
- J.E. Nash, B.Sc. (Aberdeen), M.Sc., Ph.D. (Manchester), Associate Professor
- A. Nestor, B.A. (Bucharest), M.Sc. (New Bulgarian), Ph.D. (Brown), Assistant Professor
- M. Niemeier, M.A. (Hamburg), Ph.D. (Tubingen), Associate Professor
- T.L. Pett, B.Sc., M.A. (Louisiana), Ph.D. (Florida), Professor Emeritus
- S.G. Reid, B.Sc., Ph.D. (Ottawa), Associate Professor
- B.A. Richards, B.Sc. (Toronto), M.Sc., Ph.D. (Oxford), Assistant Professor
- A.C. Ruocco, B.Sc. (York), M.Sc., Ph.D., C. Psych (Drexel), Associate Professor
- T.R. Thiele, B.A. (Hamilton College, Clinton, NY), Ph.D. (Oregon), Assistant Professor
- K.K. Zakzanis, B.A., M.A., Ph.D., C.Psych. (York), Professor

Neuroscience - Associate Chair and Program Supervisor: Matthias Niemeier
Co-op - Associate Chair and Program Supervisor: Konstantine Zakzanis

Program Manager: Hanan Domloge
Undergraduate Advisor: Ainsley Lawson
Email: psychology-undergraduate@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Neuroscience encompasses aspects of a variety of disciplines that have the common goal of understanding how the nervous system works. Techniques from constituent disciplines like anatomy, biochemistry, molecular biology, pharmacology, physiology, psychology and zoology are used to unravel some of the mysteries of the brain and its mechanisms of action. Investigators in Neuroscience have also made fundamental contributions to clinical aspects of neurodysfunction and behaviour.

The Major Program is intended for students who wish to combine their studies of Neuroscience with other areas of interest. The Specialist Program is designed for students who have a particular interest in the Neurosciences and wish to focus their studies in this area. The Specialist (Co-operative) Program provides the student with a broad background in neuroscience, with intensive lab experience and practical experience in real job settings.

Students are strongly encouraged to complete all Neuroscience program requirements at UTSC. In only a very few instances, courses from the other campuses may be used to satisfy Program requirements. However such substitutions must be pre-approved by the Program Manager, in writing on an official form obtained from the Registrar's Office.

Admission to Neuroscience Programs

The Specialist and Major programs in Neuroscience have enrolment limits. Every year students will be admitted to the Specialist Programs in Neuroscience including Co-operative studies and the major program in NRO. Entry into these programs can be gained as follows:

1. Direct entry: Students may be admitted directly from high school, on the basis of academic performance and must have completed math and chemistry (biology is recommended). Physics is recommended for students interested in applying to the specialist program. Students will be required to have a cumulative GPA of 2.30 or higher at the end of 1st year (i.e. at the end of the session in which they complete their 4th credit) to remain in the Specialist program. Students whose cumulative GPA at the end of 1st year is between 2.00 and 2.49 may transfer to the major program.

2. Admission after first year: Students may apply to the program after completing a minimum of 4.0 credits including 1 credit in biology, chemistry and psychology. Admission will be based on cumulative GPA with 2.8 or higher guaranteeing admission to the Specialist program and 2.0 to the Major program. Students with lower GPAs will be considered to the extent that laboratory spaces are available for both programs. The minimum GPA used to admit these students will be determined in May (after the Winter session) and August (after the Summer session). Application for admission will be made to the Registrar through ROSI, in April/May and July/August.

Neuroscience courses

Priority access to Neuroscience courses will be given to Major and Specialists in Neuroscience programs and other programs requiring these courses. During the first two weeks of Fall/Winter registration, the courses will be restricted to these students. Provided space is available, the courses will be
opened to other students in the third week.

**First-Year Students in Neuroscience**

BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3 and PSYA02H3 are recommended in the first year if you are intending to pursue a Specialist or Major Program in Neuroscience. For Specialists, MATA30H3 is recommended in first year and [PHYA10H3 or PHYA11H3] is recommended in the first two years.

**Service Learning and Outreach (Previously known as Science Engagement)**

For experiential learning through community outreach, classroom in-reach and team research, please see the Teaching and Learning section of this Calendar.

**Neuroscience Programs**

**SPECIALIST PROGRAM IN NEUROSCIENCE (SCIENCE)**

**Program Requirements**

This program requires completion of 14.0 credits:

1. The following 4.0 credits:
   - BIOA01H3 Life on Earth: Unifying Principles
   - BIOA02H3 Life on Earth: Form, Function and Interactions
   - CHMA10H3 Introductory Chemistry I: Structure and Bonding
   - CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
   - [MATA30H3 Calculus I for Physical Sciences or (MATA20H3) Calculus A]
   - [PHYA10H3 Physics IA or PHYA11H3 Physics IB]
   - PSYA01H3 Introductory Psychology: Part I
   - PSYA02H3 Introductory Psychology: Part II

2. The following 3.5 credits:
   - BIOB10H3 Cell Biology
   - BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
   - CHMB41H3 Organic Chemistry I
   - CHMB42H3 Organic Chemistry II
   - NROB60H3 Neuroanatomy Laboratory
   - PSYB65H3 Human Brain & Behaviour
   - [STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology]

3. The following 5.5 credits:
   - BIOC12H3 Biochemistry I: Proteins & Enzymes
   - BIOC13H3 Biochemistry II: Bioenergetics & Metabolism
   - BIOC32H3 Human Physiology I
   - BIOC33H3 Human Physiology II: Lecture & Laboratory
   - NROC34H3 Neuroethology (Invertebrate Neurobiology)
   - NROC61H3 Learning & Motivation
   - NROC63H3 Neuroscience Laboratory
   - NROC64H3 Sensorimotor Systems
   - NROC69H3 Synaptic Organization & Physiology of the Brain
   - PSYC08H3 Advanced Data Analysis in Psychology
   - PSYC62H3 Drugs & the Brain

4. 1.0 credit from the following:
   - BIOC14H3 Genes, Environment and Behaviour
   - BIOD19H3 Epigenetics in Health and Disease
   - BIOD27H3 Molecular Endocrinology
   - BIOD45H3 Animal Communication
   - BIOD65H3 Pathologies of the Nervous System
   - NROD60H3 Current Topics in Neuroscience
   - NROD08H3/BIOD08H3 Theoretical Neuroscience
   - NROD63H3 Advanced Neuroscience Laboratory
   - NROD66H3 Drug Addiction
   - NROD67H3 Psychobiology of Aging
   - PSYD17H3 Social Neuroscience
   - PSYD33H3 Current Topics in Abnormal Psychology
   - PSYD66H3 Current Topics in Human Brain & Behaviour

**Note:** 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards Requirement 4.
SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE (SCIENCE)

The Neuroscience Co-operative program is designed to provide the student with a broad education in neuroscience, including neuroanatomy, neurophysiology, behaviour, psychology, biochemistry, cell and molecular biology and data analysis through lectures, lecture/lab and intensive laboratory courses.

The program combines academic studies in the field of neuroscience with practical work experience in settings in which scientific knowledge from various subfields in the discipline is applied. Students may apply for work term employment in settings such as research and development departments in industry, educational institutions, health care institutions and government agencies. The work experience provided by the program enables students to explore career opportunities that may be pursued following the Bachelor's degree. Work settings may also provide students with the opportunity to observe neuroscientists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post-graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in applied research.

For information on admissions, fees, work terms and standing in the program, please see the Co-operative Programs section of this Calendar.

Program Admission
Enrolment in the program is limited.

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including BIOA01H3, BIOA02H3, CHMA10H3, CHMA11H3, PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75.

Program Requirements

Work Terms
The program requires eight four-month terms of study and two four-month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits including: BIOB10H3, BIOB11H3, BIOB12H3, CHMB41H3, CHMB42H3, NROC60H3, NROC61H3 or NROC64H3. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term.

To be eligible for their second work term, students must have completed at least 12.5 full credits and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements
The program requires the completion of 15.0 credits including the 14.0 credits as specified in the Specialist Program in Neuroscience, plus the following:
1. BIOB12H3 Cell and Molecular Biology Laboratory
2. BIOC23H3 Practical Approaches to Biochemistry
3. The Arts & Science Co-op Work Term Preparation course

MAJOR PROGRAM IN NEUROSCIENCE (SCIENCE)

Program Requirements
The Program requires completion of 8.0 credits. Students who wish to combine the Major Program in Neuroscience with the Major in Biology or the Major in Mental Health Studies or the Major in Psychology are advised that they must present 12.0 distinct credits to receive certification of the completion of both programs. Consultation with the respective Program Supervisors in the selection of credits is recommended.

The following indicates the required credits for the Major Program in Neuroscience:
1. The following 3.0 credits:
   BIOA01H3 Life on Earth: Unifying Principles
   BIOA02H3 Life on Earth: Form, Function and Interactions
   CHMA10H3 Introductory Chemistry I: Structure and Bonding
   CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
   PSYA01H3 Introductory Psychology: Part I
   PSYA02H3 Introductory Psychology: Part II
2. The following 2.5 credits:
   BIOB10H3 Cell Biology
   BIOB11H3 Molecular Aspects of Cellular and Genetic Processes
   NROC60H3 Neuroanatomy Laboratory
   PSYB65H3 Human Brain and Behaviour
   [STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology]
3. The following 1.5 credits:
   - BIOC32H3 Human Physiology I
   - NROC61H3 Learning and Motivation
   - NROC64H3 Sensorimotor Systems

4. 1.0 credit from the following:
   - BIOC14H3 Genes, Environment and Behaviour
   - BIOD19H3 Epigenetics in Health and Disease
   - BIOC33H3 Human Physiology II: Lecture & Laboratory
   - BIOD27H3 Molecular Endocrinology
   - BIOD45H3 Animal Communication
   - BIOD65H3 Pathologies of the Nervous System
   - NROC63H3 Neuroethology
   - NROC66H3 Neuroscience Laboratory
   - NROC69H3 Synaptic Organization & Physiology of the Brain
   - NROC90H3 Supervised Study in Neuroscience
   - NROC80H3/BIOD80H3 Theoretical Neuroscience
   - NROD60H3 Current Topics in Neuroscience
   - NROD63H3 Advanced Neuroscience Laboratory
   - NROD66H3 Drug Addiction
   - NROD67H3 Psychobiology of Aging
   - PSYC62H3 Drugs and the Brain
   - PSYD17H3 Social Neuroscience
   - PSYD33H3 Current Topics in Abnormal Psychology
   - PSYD66H3 Current Topics in Human Brain & Behaviour

Neuroscience Courses

NROB60H3  Neuroanatomy Laboratory
This course will focus on lab neuroanatomy at both the human and animal level. This will also include examination of the structure and function of neurons and glia, neurochemistry, and neuromechanisms of communication at the cellular and molecular level.
Prerequisite: BIOA01H3 and BIOA02H3 and PSYA01H3 and PSYA02H3
Exclusion: CSB332H, HMB320H, PSY290H, PSY391H, (ZOO332H)
Breadth Requirement: Natural Sciences
NOTE: CHMA10H3 and CHMA11H3 are strongly recommended for students with no Chemistry background

NROC34H3  Neuroethology
Neural basis of natural behaviour; integrative function of the nervous system; motor and sensory systems; mechanisms of decision-making, initiating action, co-ordination, learning and memory. Topics may vary from year to year.
Prerequisite: BIOC34H3 or NROB60H3
Breadth Requirement: Natural Sciences

NROC61H3  Learning and Motivation
Topics covered under the category of motivation include: physiological basis of eating, drinking and sexual behaviour, sleep, and the neural correlates of reward. Topics covered under learning include: learning categories, memory systems and the cell and molecular basis of learning and memory.
Prerequisite: NROB60H3
Exclusion: HMB200H
Breadth Requirement: Natural Sciences

NROC63H3  Neuroscience Laboratory
Instruction in a variety of techniques used in investigations of nervous system function. Behavioural techniques, neurological manipulation, perfusions, histology, animal ethics and the preparation of scientific papers will be covered. Priority will be given to students enrolled in the Neuroscience Specialist Program (Co-op and Non co-op).
Prerequisite: [PSYB07H3 or STAB22H3] & NROB60H3
Exclusion: PSY399H
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

NROD64H3  Sensorimotor Systems
A focus on the mechanisms by which the nervous system processes sensory information and controls movement. The topics include sensory transduction and the physiology for sensory systems (visual, somatosensory, auditory, vestibular). Both spinal and central mechanisms of motor control are also covered.
Prerequisite: NROB60H3
Exclusion: PSY290H
Breadth Requirement: Natural Sciences

NROD69H3  Synaptic Organization and Physiology of the Brain
Neuronal morphology, synaptic connectivity, and molecular mechanisms of synaptic function are covered in detail. Similarities in circuitry among such diverse structures as the olfactory bulb, cerebellum, hippocampus and neocortex are examined in detail. The goal is to engender a deeper understanding of cellular mechanisms of information processing in the CNS.
Prerequisite: NROB60H3
Breadth Requirement: Natural Sciences

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Neuroscience

NROC90H3 Supervised Study in Neuroscience
An intensive research project intended to provide laboratory/field experience in data collection and analysis. The project must be completed over 2 consecutive terms. NROC90H3 & NROC93H3 provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report. Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book. Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Neuroscience faculty at UTSC then a secondary supervisor who is a member of the Neuroscience group at UTSC will be required. Prerequisite: 3.0 credits in Psychology, Biology or Neurosciences and permission of instructor. Exclusion: PSYC90H3

NROC93H3 Supervised Study in Neuroscience
An intensive research project intended to provide laboratory/field experience in data collection and analysis. The project must be completed over 2 consecutive terms. NROC90H3 & NROC93H3 provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report. Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book. Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Neuroscience faculty at UTSC then a secondary supervisor who is a member of the Neuroscience group at UTSC will be required. Prerequisite: 3.0 credits in Psychology, Biology or Neurosciences and permission of instructor. Exclusion: PSYC90H3

NROD08H3 Theoretical Neuroscience
A seminar covering topics in the theory of neural information processing, focused on perception, movement, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures, liquid state-machines and Bayesian optimality. Same as BIOD08H3
Prerequisite: [NROC34H3 or NROC64H3 or NROC69H3] and [MATA29H3 or MATA31H3] and [PSYB07H3 or STA622H3]
Exclusion: BIOD08H3
Breadth Requirement: Natural Sciences

NROD60H3 Current Topics in Neuroscience
An intensive examination of selected issues and research problems in the Neurosciences. Prerequisite: NROC61H3 & NROC64H3

NROD63H3 Advanced Neuroscience Laboratory
Instruction in a variety of advanced techniques used to investigate nervous system functioning. Advanced molecular and cellular histochemical techniques used in the neurosciences will be covered as well as theory, methodology and image analysis. Prerequisite: NROC61H3 & NROC64H3
Corequisite: PSYC08H3
Exclusion: PSY399H
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

NROD66H3 Drug Addiction
An examination of the major phases of the addiction cycle, including drug consumption, withdrawal, and relapse. Consideration will be given to what basic motivational and corresponding neurobiological processes influence behaviour during each phase of the cycle. Recent empirical findings will be examined within the context of major theoretical models guiding the field. Prerequisite: [NROC61H3 or NROC64H3] & PSYC62H3
Corequisite: PSYC08H3
Exclusion: NROD60H3 (if taken in the 2009 Fall Session)
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

NROD67H3 Psychobiology of Aging
This course will characterize various anatomical, biochemical and physiological changes that occur in the nervous system with age and will explore the association between these changes and cognitive deterioration. We will examine several age-related disease states and evaluate the validity of current theories and experimental models of aging in depth. Prerequisite: NROB60H3 & [NROC61H3 or NROC64H3]
Corequisite: NROC61H3
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

NROD98Y3 Thesis in Neuroscience
This course offers the opportunity to engage in a year long research project under the supervision of an interested member of the faculty in Neuroscience. The project will culminate in a written report in the form of a thesis and a poster presentation. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others, and to discuss the results of their investigation. Students must first find a supervisor, which is usually confirmed before the start of the academic term in which the project will be initiated. Students will meet as a group with the coordinator as well as individually with their supervisor. Preference in this course is given to Specialists in Neuroscience with a cumulative GPA of 3.3 or higher. Students planning to pursue graduate studies are especially encouraged to enrol in the course. Students must obtain a permission form from the Department of Psychology’s website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and submitted to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus will need to arrange co supervision with a faculty member in Neuroscience at UTSC. Prerequisite: Satisfactory completion of 15.0 credits in any discipline, including PSYB07H3 and one laboratory half-course in Psychology.
Biology or Neuroscience and consent of a faculty member in Psychology or Biology to serve as a research supervisor.

**Note:** Preference will be given to students in a specialist program in Neuroscience whose 15.0 credits include PSYC08H3 and who have a cumulative GPA of at least 3.3.

**Exclusion:** BIOD98Y3, PSYD98Y3, (BGYD98Y3), (BGYD99Y3), (BGYD01Y3), (BGYD02Y3)
New Media Studies

Faculty List

- G. Graffam, M.A., Ph.D. (Toronto), Lecturer
- M. Petit, M.A., Ph.D. (Colorado), Associate Professor, Teaching Stream

Program Director: M. Petit  
Email: new-media@utsc.utoronto.ca

The Major (Joint) program in New Media Studies (BA) is a competitive-entry professionalization program designed to help students prepare for careers in Web communication and new media industries. It combines the academic study of media at UTSC with the technical education and industry experience provided through practice-based courses on multimedia design for Web and mobile applications at Centennial College. In addition to earning an Honours Bachelor of Arts degree from the University of Toronto, students can earn a certificate in New Media Design from Centennial College by completing one additional summer session, which includes a new media internship and a professional practice course. New Media courses at Centennial College are held at the Story Arts Centre (SAC) campus located at 951 Carlaw Avenue.

Program Admission

Enrolment in the program is limited and admission is by competitive application, due by May 1 each year. Students must have completed MDSA01H3 and MDSA02H3, and have a minimum cumulative GPA of 2.0 to apply. Students must request admission to the program through ROSI and submit to the program director a Supplementary Application Form that includes an unofficial copy of their academic record, a personal statement of interest, and links (if any) to work published online. Students are strongly advised to meet with the program director during their first year, and before preparing an application for admission. Students may be required to attend an interview with the program director before an admission decision is made. All applicants will be notified through ROSI in early June.

Notes:
1. Although many students applying to the Major (Joint) program in New Media Studies have substantial digital portfolios, students are not required to have any advanced knowledge in new media design to apply or to be admitted.
2. Students who are not accepted after their first year of studies may apply again at the end of their second year of studies; these students should continue to follow the requirements of the Major program in Media Studies.
3. Effective the 2015-16 academic year, students in the Major (Joint) program in New Media Studies will take classes at Centennial College in the Fall semester, immediately after admission into the program.

For more details on application procedures, and a link to the Supplementary Application form, see the New Media Studies section of the Joint Program website: www.utsc.utoronto.ca/~jtprogs/newMedia.html.

Course Selection Guidelines

Students admitted to the program must follow the course selection guidelines described in the table below:

<table>
<thead>
<tr>
<th>Year of Study</th>
<th>Fall Session</th>
<th>Winter Session</th>
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</thead>
<tbody>
<tr>
<td>Year 1 (at UTSC)</td>
<td>MDSA01H3*</td>
<td>MDSA02H3</td>
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<tr>
<td>Note: students should also take ACMA01H3</td>
<td>*MDSA01H3 is also offered in the Summer session</td>
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<tr>
<td>Year 2 (at Centennial College)</td>
<td>MDSB61H3*</td>
<td>New Media Group 1: **</td>
</tr>
<tr>
<td>Notes:</td>
<td></td>
<td></td>
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<tr>
<td>1. Students must be enrolled full-time in year 2 of the program.</td>
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<td>NMEA01H3</td>
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<tr>
<td>2. Due to the course and project work load in the Winter session, students are not permitted to take additional courses at UTSC.</td>
<td></td>
<td>NMEA02H3</td>
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<td></td>
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<td>NMEA03H3</td>
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<tr>
<td></td>
<td></td>
<td>NMEA04H3</td>
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<td></td>
<td></td>
<td>*scheduled at UTSC</td>
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<td></td>
<td></td>
<td>**students must enrol in all courses in Group 1</td>
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<tr>
<td></td>
<td></td>
<td>**students must enrol in all courses in Group 2</td>
</tr>
<tr>
<td>Year 3 (at UTSC)</td>
<td>MDSB63H3</td>
<td>MDSB62H3</td>
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<tr>
<td>Note: students complete Media Studies electives in year 3 and 4</td>
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<tr>
<td>Year 4 (at UTSC)</td>
<td>NMED01H3</td>
<td>NMED02H3</td>
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<tr>
<td>Note: students complete Media Studies electives in year 3 and 4</td>
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</tbody>
</table>
Guidelines for computer and software selection
Students accepted in the Joint Program in New Media Studies are expected to purchase an industry standard laptop and obtain designated software and hardware. For current requirements: http://www.utsc.utoronto.ca/~jtprogs/newMedia.html

New Media Studies Programs

MAJOR (JOINT) PROGRAM IN NEW MEDIA STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: nme-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete 9.0 full credits of which at least 2.0 must be at the C- or D-level, including:

1. 1.0 credit:
   MDSA01H3 Introduction to Media Studies
   MDSA02H3 History of Media

2. 1.5 credits:
   MDSB61H3 Mapping New Media
   MDSB62H3 Visual Culture and Communication
   MDSB63H3 Sound and Visual Media

3. 0.5 additional credit in MDS courses

4. 0.5 credit from the following:
   CSCA20H3 Computer Science for the Sciences
   VPAA06H3 Visual and Performing Arts Management in the Digital Age
   VPMC91H3 Electronic Music I
   VPMC97H3 Music, Technologies, Media
   VPSA62H3 Foundation Studies in Studio
   VPSA73H3 Video I
   VPSA74H3 Digital Studio I
   VPSB67H3 Photo I
   VPSB72H3 Digital Publishing
   VPSB75H3 Photo II
   VPSB76H3 Video II
   VPSB80H3 Digital Studio II
   VPSB86H3 Sculpture and Technology
   VPSB87H3 Documentary Photography
   VPSB88H3 Sound Art
   VPSB89H3 Digital Animation I
   VPSC52H3 Documentary Video
   VPSC70H3 Theory and Practice: New Media in Studio
   VPSC89H3 Digital Animation II

Note: Additional courses with a media focus offered by other programs and departments may be eligible to meet this requirement (with permission of the program director).

5. 4.5 credits from Centennial College:
   New Media Group 1.
   NMEA01H3 Digital Fundamentals
   NMEA02H3 Introduction to New Media Communications
   NMEA03H3 The Language of Design
   NMEA04H3 Interface Design, Navigation and Interaction I

   New Media Group 2.
   [Students will be eligible to enrol in these courses after successfully completing all courses in New Media Group 1]
   NMEB05H3 Interface Design, Navigation and Interaction II
   NMEB06H3 Project Development and Presentation
   NMEB08H3 Application Software for Interactive Media
   NMEB09H3 Sound Design
   NMEB10H3 Design for New Media
New Media Studies

6. 1.0 full credit:
NMED01H3 New Media Senior Project
NMED20H3 Theory and Practice of New Media

Note: NMED01H3 and NMED20H3 are taught at UTSC. All other NME courses are taught at Centennial College.

New Media Studies Courses

NMEO01H3 Digital Fundamentals
This course introduces basic hardware and software for new media. Students will learn basics of HTML (tags, tables and frames) and JavaScript for creation of new media. Discusses hardware requirements including storage components, colour palettes and different types of graphics (bitmap vs. vector-based). Students will be introduced to a variety of software packages used in new media production. This course is taught at Centennial College.
Prerequisite: 5.0 credits including MDSA01H3 and MDSA02H3
Corequisite: NMEA02H3, NMEA03H3, NMEA04H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO02H3 Introduction to New Media Communications
This course enables students to develop strong written communications skills for effective project proposals and communications, as well as non-linear writing skills that can be applied to a wide range of interactive media projects. The course examines the difference between successful writing for print and for new media, and how to integrate text and visual material. This course is taught at Centennial College.
Prerequisite: 5.0 credits including MDSA01H3 and MDSA02H3
Corequisite: NMEA01H3, NMEA03H3, NMEA04H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO03H3 The Language of Design
This course introduces the fundamentals of two-dimensional design, graphic design theory, graphic design history, colour principles, typographic principles and visual communication theories applied to New Media Design. Working from basic form generators, typography, two-dimensional design principles, colour and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multi-media. This course is taught at Centennial College.
Prerequisite: 10 full credits
Corequisite: MDSA01H3 and MDSA02H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO04H3 Interface Design, Navigation and Interaction I
This course introduces students to the discipline of user interface and software design, and in particular their impact and importance in the world of new media. The course uses theory and research in combination with practical application, to bring a user-centred design perspective to developing new media software. This course is taught at Centennial College.
Prerequisite: 5.0 credits including MDSA01H3 and MDSA02H3
Corequisite: NMEA01H3, NMEA02H3, NMEA03H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO05H3 Interface Design, Navigation and Interaction II
Extends work on interface design. Students have opportunities to gain real world experience in the techniques of user interface design. Participants learn to do a "requirements document" for projects, how to design an interface which meets the needs of the requirements of the document and how to test a design with real world users.
Prerequisite: NMEA01H3, NMEA02H3, NMEA03H3, NMEA04H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO06H3 Project Development and Presentation
This course enables the participant to understand the new media production process. Learners will develop the skills to conduct benchmarking, scoping and testing exercises that lead to meaningful project planning documents. Learners will develop and manage production schedules for their group projects that support the development efforts using the project planning documents.
Prerequisite: NMEA01H3, NMEA02H3, NMEA03H3, NMEA04H3
Corequisite: NMEA05H3, NMEA08H3, NMEA09H3, NMEA10H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO08H3 Application Software for Interactive Media
This course builds on NMEA01H3. It enables learners to extend their understanding of software requirements and of advanced software techniques. Software used may include Dreamweaver, Flash, Director, and animation (using Director).
Prerequisite: NMEA01H3, NMEA02H3, NMEA03H3, NMEA04H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO09H3 Sound Design
This course introduces students to the scope of sound design - creative audio for new media applications. Students will work with audio applications software to sample, create and compress files, and in the planning and post-production of new media. Students will also learn to use audio in interactive ways such as soundscapes.
Prerequisite: NMEA01H3, NMEA02H3, NMEA03H3, NMEA04H3
Corequisite: NMEA05H3, NMEA06H3, NMEA08H3, NMEA10H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

NMEO10H3 New Media Design
This course discusses the integration of multiple media with the art of good design. The course examines the conventions of typography and the dynamics between words and images, with the introduction of time, motion and sound. The course involves guest speakers, class exercises, assignments, field trips, group critiques and major projects.
Prerequisite: NMEA01H3, NMEA02H3, NMEA03H3, NMEA04H3
Corequisite: NMEA05H3, NMEA06H3, NMEA08H3, NMEA09H3
Enrolment Limits: 35. This course is only open to students registered in the Joint Major Program in New Media.
Breadth Requirement: Social & Behavioural Sciences

Note: NMED01H3 and NMED20H3 are taught at UTSC. All other NME courses are taught at Centennial College.
NMED01H3  New Media Senior Project
Students develop a new media project that furthers their research into theoretical issues around digital media practices and artefacts. Projects may focus on digital media ranging from the internet to gaming, to social networking and the Web, to CD-ROMS, DVDs, mobile apps, and Virtual and Augmented Reality technologies.
Prerequisite: Completion of 15 credits including Centennial College courses listed in New Media Group 1 & New Media Group 2
Enrolment Limits: 35

NMED20H3  Theory and Practice of New Media
This seminar examines the ideological, political, structural, and representational assumptions underlying new media production and consumption from both theoretical and practice-based perspectives. Students critically reflect on and analyze digital media applications and artefacts in contemporary life, including business, information, communication, entertainment, and creative practices.
Prerequisite: Completion of 15 full credits including Centennial College courses listed in New Media Group 1 & New Media Group 2
Enrolment Limits: 35
Breadth Requirement: History, Philosophy & Cultural Studies
Paramedicine

Faculty List

- S.A. Brunt, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream

Paramedicine Programs

SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE (SCIENCE)

Supervisor of Studies: Shelley Brunt  Email: paramedicine@utsc.utoronto.ca

This program consists of 16.5 required credits and may be taken in fulfillment of the requirements of a four-year (20-credit) Honours Degree. Students taking this program must take an additional 3.5 credits of electives. When choosing electives keep in mind the minimum breadth requirements that must be met to complete a degree. It is advisable that, including electives, students plan to take 2.5 credits in each semester of their four year degree. Note that three of the PMD courses are 1 credit (Y courses) rather than 0.5 credit (H courses). Students who complete the requirements of the program will also qualify for the Paramedic Diploma from Centennial College. Students who have completed the requirements for Centennial’s diploma are eligible to take the Ministry of Health exams required to qualify as a Primary Care Paramedic.

Program Admission

Limited enrolment. Applicants must fill out a Paramedicine Declaration form. Prior to taking courses at Centennial College, students must also fill out a medical certificate and have current qualifications in CPR and standard first aid. Other non-academic requirements such as a vulnerable sector police check, fitness standards and face mask fit certification will also ultimately be required. Additional details regarding these requirements may be found at Centennial’s website or by contacting Walter Tavares at Centennial College (WTavares@centennialcollege.ca). Applicants may arrange to complete some of these requirements during their first year of study at the University of Toronto Scarborough.

For more information on admission and deadlines, see the Joint Programs with Centennial College section of this Calendar.

Program Requirements

Notes:

1. In order to remain in the program, students must typically maintain a cumulative grade point average of at least 2.0. Students whose cumulative GPA falls below 2.0 should consult the program supervisor to discuss their options. Please note, space in some Centennial College courses is limited. Students who must repeat one of these courses and whose CGPA has fallen below 2.0 will be allowed to register in these courses only if space permits.

2. Suggested course sequences follow below.

1.0 Credit of Introductory Biology Courses

BIOA01H3 Life on Earth: Unifying Principles
BIOA02H3 Life on Earth: Form, Function and Interactions

1.5 Credits of Core Biology Courses

BIOB10H3 Cell Biology
BIOB11H3 Molecular Aspects of Genetic Processes
[(BIOB30H3) Mammalian Physiology I or BIOB34H3 Animal Physiology]

1.5 Credits of Foundational Biology Courses

BIOC17H3 Microbiology
[BIOC21H3 Vertebrate Histology: Cells and Tissues or BIOC32H3 Human Physiology I]
BIOC34H3 Human Physiology II: Lecture

1.0 Credit of Advanced Biology Courses

Choose From:
BIOD17H3 Seminars in Cellular Microbiology
BIOD26H3 Fungal Biology and Pathogenesis
BIOD29H3 Pathobiology of Human Disease
BIOD33H3 Comparative Animal Physiology
BIOD43H3 Animal Movement and Exercise
BIOD65H3 Pathologies of the Nervous System
BIOD96Y3 Directed Research in Paramedicine
1.0 Credit of Introductory Chemistry Courses
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

1.0 Credit of Introductory Psychology Courses
PSYA01H3 Introductory Psychology: Part I
PSYA02H3 Introductory Psychology: Part II

1.0 Credit of B-Level Psychology Courses
PSYB20H3 Introduction to Developmental Psychology
PSYB32H3 Abnormal Psychology

1.0 Credit of Statistics/Data Analysis Courses
[STAB22H3 Statistics I or PSYB07H3 Data Analysis in Psychology]
PSYC08H3 Advanced Data Analysis in Psychology

7.5 Credits of Paramedicine Courses
*PMDB22H3 Pre-Hospital Care 1: Theory and Lab
*PMDB25H3 Therapeutic Approaches to Behaviour in Crisis
*PMDB30H3 Alterations of Human Body Function I
*PMDB32Y3 Pre-Hospital Care 2: Theory, Lab and Clinical
*PMDB33H3 Anatomy
*PMDB36H3 Pharmacology for Allied Health Pre-requisite
*PMDB41H3 Professional Issues, Research and Leadership
*PMDC40H3 Alterations in Human Body Function II
*PMDC42Y3 Pre-Hospital Care 3: Theory, Lab and Field
*PMDC43H3 Medical Directed Therapeutics and Paramedic Responsibilities
*PMDC54Y3 Pre-Hospital Care 4: Theory, Lab and Field
*PMDC56H3 Primary Care Practice Integration and Decision Making

*A grade of 60% is required in these courses both to pass the course and to maintain standing in the program. All PMD courses are taught at Centennial College. Note, some PMD courses require that 60% be achieved in all components of the course (i.e., lecture component, practical component, and clinical-placement component).

Suggested Program Sequence
Note: Students may also take courses in the summer, when offered. BIOB10Y3 may be taken in the summer in place of BIOB10H3 and BIOB11H3.

Year 1: Fall Session
a. BIOA01H3 Life on Earth: Unifying Principles
b. CHMA10H3 Introductory Chemistry I: Structure and Bonding
c. PSYA01H3 Introductory Psychology: Part I
d. PSYB07H3 Data Analysis in Psychology (fall) & 0.5 credits of elective courses
   or
   1.0 credits of elective courses

Year 1: Winter Session
a. BIOA02H3 Life on Earth: Form, Function and Interactions
b. CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
c. PSYA02H3 Introductory Psychology: Part II
d. STAB22H3 Statistics I & 0.5 credits of elective courses
   or
   1.0 credits of elective courses

Year 2: Fall Session
a. BIOB10H3 Cell Biology
b. PMDB33H3 Anatomy
c. PMDB22H3 Pre-Hospital Care 1: Theory and Lab
d. PMDB25H3 Therapeutic Approaches to Behaviour in Crisis
e. PMDB41H3 Professional Issues, Research and Leadership

Year 2: Winter Session
a. BIOB11H3 Molecular Aspects of Genetic Processes
b. PMDB30H3 Alterations of Human Body Function I
c. PMDB32Y3 Pre-Hospital Care 2: Theory, Lab and Clinical
d. PMDB36H3 Pharmacology for Allied Health Pre-requisite
Paramedicine

Year 3: Fall Session
a. BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I
b. PMDC40H3 Alterations in Human Body Function II
c. PMDC42Y3 Pre-Hospital Care 3: Theory, Lab and Field
d. PMDC43H3 Medical Directed Therapeutics and Paramedic Responsibilities

Year 3: Winter Session
a. BIOC17H3 Microbiology
b. BIOC34H3 Human Physiology II: Lecture
c. PMDC54Y3 Pre-Hospital Care 4: Theory, Lab and Field
d. PMDC56H3 Primary Care Practice Integration and Decision Making

Year 4: Fall Session*
a. BIOC21H3 Vertebrate Histology: Cells and Tissues or BIOC32H3 Human Physiology I
b. PSYB20H3 Introduction to Developmental Psychology
c. PSYB32H3 Abnormal Psychology
d. [BIOD33H3 Comparative Animal Physiology or BIOD65H3 Pathologies of the Nervous System or BIOD26H3 Fungal Biology and Pathogenesis or BIOD96Y3 Directed Research in Paramedicine*]

Year 4: Winter Session*
a. PSYC08H3 Advanced Data Analysis in Psychology
b. BIOD17H3 Seminars in Cellular Microbiology or BIOD43H3 Animal Movement and Exercise or BIOD29H3 Pathobiology of Human Disease
c. 0.5 credits of elective courses

*Note: Students may take any 2 of these D-level courses to meet program requirements. The sequence here merely reflects current scheduling of courses in the various sessions.

Paramedicine Courses

PMDB22H3 Pre-hospital Care 1: Theory and Lab
Allows students to develop the critical thinking skills and problem solving approaches needed to provide quality pre-hospital emergency care. Emphasizes the components of primary and second assessment, and the implementation of patient care based on interpretation of assessment findings. Discusses principles of physical and psycho-social development, and how these apply to the role of the paramedic. Students must pass each component (theory and lab) of the course to be successful. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: BIOA01H3 and BIOA02H3
Corequisite: PMDB25H3 and PMDB41H3 and PMDB33H3
Enrolment Limits: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Breadth Requirement: Social & Behavioural Sciences

PMDB25H3 Therapeutic Communications and Crisis Intervention
Focuses on the utilization of effective communication tools when dealing with persons facing health crisis. Students will learn about coping mechanisms utilized by patients and families, and the effects of death and dying on the individual and significant others. Students will have the opportunity to visit or examine community services and do class presentations. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: BIOA01H3 and BIOA02H3
Enrolment Limits: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Breadth Requirement: History, Philosophy & Cultural Studies

PMDB30H3 Alterations of Human Body Function I
Discusses how human body function is affected by a variety of pathophysiological circumstances. The theoretical framework includes the main concepts of crisis, the adaptation of the body by way of compensatory mechanisms, the failure of these compensatory mechanisms and the resulting physiological manifestations. Students will learn to identify such manifestations. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB22H3 and PMDB25H3 and PMDB41H3 and PMDB33H3
Corequisite: PMDB32Y3 and PMDB36H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine
Breadth Requirement: Natural Sciences

PMDB32Y3 Pre-hospital Care 2: Theory, Lab and Clinical
Provides the necessary knowledge, skill and value base that will enable the student to establish the priorities of assessment and management for persons who are in stress or crisis due to the effects of illness or trauma. The resulting patho-physiological or psychological manifestations are assessed to determine the degree of crisis and/or life threat. Students must pass each component (theory, lab and clinical) of the course to be successful. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB22H3 and PMDB25H3 and PMDB41H3 and PMDB33H3
Corequisite: PMDB30H3 and PMDB36H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine
Breadth Requirement: Natural Sciences
PMDB33H3  Anatomy
The basic anatomy of all the human body systems will be examined. The focus is on the normal functioning of the anatomy of all body systems and compensatory mechanisms, where applicable, to maintain homeostasis. Specific differences with respect to the pediatric/geriatric client will be highlighted. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: BIOA01H3 and BIOB02H3
Corequisite: PMDB22H3
Exclusion: ANA300Y, ANA301H, BIOB33H3
Enrolment Limits: Restricted to students in the Specialist (Joint) Program in Paramedicine.
Breadth Requirement: Natural Sciences

PMDB36H3  Pharmacology for Allied Health
Introduces principles of Pharmacology, essential knowledge for paramedics who are expected to administer medications in Pre-hospital care. Classifications of drugs will be discussed in an organized manner according to their characteristics, purpose, physiologic action, adverse effects, precautions, interactions and Pre-hospital applications. Students will use a step-by-step process to calculate drug dosages. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB22H3 and PMDB25H3 and PMDB41H3 and PMDB33H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: Natural Sciences

PMDB41H3  Professional and Legal Issues, Research, Responsibilities and Leadership
Discusses the changing role of the paramedic and introduces the student to the non-technical professional expectations of the profession. Introduces fundamental principles of medical research and professional principles. Topics covered include the role of professional organizations, the role of relevant legislation, the labour-management environment, the field of injury prevention, and basic concepts of medical research. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: BIOA01H3 and BIOA02H3
Enrolment Limits: Enrolment is restricted to students in the Specialist Program in Paramedicine.
Breadth Requirement: Social & Behavioural Sciences

PMDC40H3  Alterations of Human Body Function II
Strengthens students' decision-making skills and sound clinical practices. Students continue to develop an understanding of various complex alterations in human body function from a variety of patho-physiological topics. Physiologic alterations will be discussed in terms of their potential life threat, their effect on the body's compensatory and decompensatory mechanisms, their manifestations and complications and treatment. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB30H3 and PMDB32Y3 and PMDB36H3 and BIOB11H3
Corequisite: PMDC42Y3 and PMDC43H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: Natural Sciences

PMDC42Y3  Pre-hospital Care 3: Theory, Lab and Field
Provides students with the necessary theoretical concepts and applied knowledge and skills for managing a variety of pre-hospital medical and traumatic emergencies. Particular emphasis is placed on advanced patient assessment, ECG rhythm interpretation and cardiac emergencies, incorporation of symptom relief pharmacology into patient care and monitoring of intravenous fluid administration. Students must pass each component (theory, lab and field) of the course to be successful. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB30H3 and PMDB32Y3 and PMDB36H3 and BIOB11H3
Corequisite: PMDC40H3 and PMDC43H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: Natural Sciences

PMDC43H3  Medical Directed Therapeutics and Paramedic Responsibilities
Applies concepts and principles from pharmacology, patho-physiology and pre-hospital care to make decisions and implementation of controlled or delegated medical acts for increasingly difficult case scenarios in a class and lab setting. Ethics and legal implications/responsibilities of actions will be integrated throughout the content. Patient care and monitoring of intravenous fluid administration. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDB30H3 and PMDB32Y3 and PMDB36H3 and BIOB11H3
Corequisite: PMDC40H3 and PMDC42Y3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: History, Philosophy & Cultural Studies

PMDC54Y3  Pre-hospital Care 4: Theory, Lab and Field
Combines theory, lab and field application. New concepts of paediatric trauma and Basic Trauma Life Support will be added to the skill and knowledge base. Students will be guided to develop a final portfolio demonstrating experiences, reflection and leadership. Students must pass each component (theory, lab and field) of the course to be successful. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDC40H3 and PMDC42Y3 and PMDC43H3
Corequisite: PMDC56H3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: Natural Sciences

PMDC56H3  Primary Care Paramedic Integration and Decision Making
Challenges students with increasingly complex decisions involving life-threatening situations, ethical-legal dilemmas, and the application of sound foundational principles and knowledge of pharmacology, pathophysiology, communication, assessment and therapeutic interventions. Students will analyze and discuss real field experiences and case scenarios to further develop their assessment, care and decision-making. This course is taught at the Centennial HP Science and Technology Centre.
Prerequisite: PMDC40H3 and PMDC42Y3 and PMDC43H3
Corequisite: PMDC54Y3
Enrolment Limits: Enrolment is limited to students in the Specialist Program in Paramedicine.
Breadth Requirement: Natural Sciences
BIOD96Y3 Directed Research in Paramedicine

See the Biological Sciences section of this Calendar for a full course description.
Philosophy

Faculty List

- W.C. Graham, M.A., Ph.D. (Toronto), Professor Emeritus
- B. Hellie, B.A. (Stanford), Ph.D. (Princeton), Associate Professor
- K. Hübner, B.A. (Williams), M.A. (Warwick), Ph.D. (Chicago), Assistant Professor
- W. Hussain, B.A. (Princeton), Ph.D. (Harvard), Assistant Professor
- P.A. Kremer, B.Sc. (Toronto), Ph.D. (Pittsburgh), Professor
- L.M. Lange, B.A., M.A. (Manitoba), Ph.D. (Toronto), Professor Emerita
- J. Nefsky, B.A. (McMaster), Ph.D. (Berkeley), Assistant Professor
- W.E. Seager, M.A. (Alberta), Ph.D. (Toronto), Professor
- S. Sedivy, B.A. (Toronto), Ph.D. (Pittsburgh), Associate Professor
- J. Wilson, B.A. (U.C. San Diego), Ph.D. (Cornell), Associate Professor

Program Supervisor: S. Sedivy Email: philosophy-program-supervisor@utsc.utoronto.ca

Philosophy is the study of the ideas that shape our thought and activity. While we do discuss controversial issues in politics, morality, science, religion, art, etc., philosophy is more concerned with the ideas that underlie all such debates. We consider what the role of government should be, what reasons there could be to describe anything as good or bad, what proves that something is true, whether there could be a reality beyond the physical world, and whether the only value of art is the pleasure it gives. Such questions have been answered in a variety of theories, and any study in philosophy begins with learning what others have thought; but our purpose is not primarily to be historians of ideas, and assignments focus on developing the intellectual abilities and techniques required to think effectively for oneself at this deeper level. Therefore, philosophy emphasizes interpretation and original thought, reasoning, discussion and assessment.

PHLA10H3 and PHLA11H3 are a survey of the main topic-areas of philosophy. They are recommended both as courses of general interest and as an introduction to the Major and Specialist Programs.

B-level courses address specific topics such as theories of human nature, theories of mind, theories of knowledge, metaphysics, techniques of argumentation, ethics, politics, feminism, and art as well as specific periods in the History of Philosophy. Since they have no prerequisites they also serve as entry-points to philosophy.

C-level seminars in Philosophy are advanced courses for students with typically 1.5 credits in Philosophy. (Instructors will admit students whose courses have adequately prepared them for a seminar. Students must provide transcripts when requesting special permission to enrol in a seminar.)

D-level seminars in Philosophy are advanced courses for students with 3.5 credits in philosophy including 1.0 credits at the C-level. (Instructors will admit students whose courses have adequately prepared them for a seminar. Students must provide transcripts when requesting special permission to enroll in a seminar.)

D-level independent study courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior agreement of an instructor.

Guidelines for 1st year course selection
Students who intend to complete a Philosophy program should include PHLA10H3 and PHLA11H3 in their 1st year course selection. Students are also strongly encouraged to take ACMA01H3 as early as possible in their studies.

Philosophy Programs

SPECIALIST PROGRAM IN PHILOSOPHY (ARTS)

Program Supervisor: W. Seager Email: philosophy-program-supervisor@utsc.utoronto.ca

Program Requirements

Students must complete at least 12.0 credits in Philosophy including PHLB50H3 Symbolic Logic I or PHLB55H3 Puzzles and Paradoxes, and at least 5.0 credits at the C- or D-level of which 1.0 must be at the D-level. MATC09H3 can be used as a Philosophy course for these purposes. Students are encouraged, though not required, to complete at least 0.5 credit as a reading course at the D-level.

Note: PHLB99H3 Writing for Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.
**MAJOR PROGRAM IN PHILOSOPHY (ARTS)**

*Program Supervisor:* S. Sedivy  *Email:* philosophy-program-supervisor@utsc.utoronto.ca

**Program Requirements**

Students must complete at least 7.0 credits in Philosophy including PHLB50H3 Symbolic Logic 1 or PHLB55H3 Puzzles and Paradoxes and at least 3.0 credits must be at the C- or D-level. MATC09H3 can be used as a Philosophy course for these purposes.

**Note:** PHLB99H3 Writing for Philosophy, is strongly recommended for the Philosophy Specialist and Major programs and is important preparation for advanced C- and D-level studies in Philosophy.

**MINOR PROGRAM IN PHILOSOPHY (ARTS)**

*Program Supervisor:* S. Sedivy  *Email:* philosophy-program-supervisor@utsc.utoronto.ca

**Program Requirements**

Students must complete 4.0 credits in Philosophy of which at least 1.0 credit must be at the C- or D-level. MATC09H3 can be used as a Philosophy course for these purposes.

**Philosophy Courses**

**PHLA10H3 Reason and Truth**

An introduction to philosophy focusing on issues of rationality, metaphysics and the theory of knowledge. Topics may include: the nature of mind, freedom, the existence of God, the nature and knowability of reality. These topics will generally be introduced through the study of key texts from the history of philosophy.

**Breadth Requirement:** History, Philosophy & Cultural Studies

**PHLA11H3 Introduction to Ethics**

Ethics is concerned with concrete questions about how we ought to treat one another as well as more general questions about how to justify our ethical beliefs. This course is an introduction that both presents basic theories of ethics and considers their application to contemporary moral problems.

**Exclusion:** PHL275H

**Breadth Requirement:** History, Philosophy & Cultural Studies

**PHLB02H3 Environmental Ethics**

This course examines ethical issues raised by our actions and our policies for the environment. Do human beings stand in a moral relationship to the environment? Does the environment have moral value and do non-human animals have moral status? These fundamental questions underlie more specific contemporary issues such as sustainable development, alternative energy, and animal rights.

**Exclusion:** PHL273H

**Recommended Preparation:** PHLA11H3

**Breadth Requirement:** History, Philosophy & Cultural Studies

**PHLB03H3 Philosophy of Art**

An examination of challenges posed by the radical changes and developments in modern and contemporary art forms. For example, given the continuously exploding nature of art works, what do they have in common - what is it to be an artwork?

**Exclusion:** PHL285H

**Breadth Requirement:** Arts, Literature & Language

**PHLB04H3 Philosophy and Literature**

This course examines some of the classic problems concerning literary texts, such as the nature of interpretation, questions about the power of literary works and their relationship to ethical thought, and problems posed by fictional works - how can we learn from works that are fictional and how can we experience genuine emotions from works that we know are fictional?

**Breadth Requirement:** Arts, Literature & Language

**PHLB05H3 Social Issues**

An examination of contemporary or historical issues that force us to consider and articulate our values and commitments. The course will select issues from a range of possible topics, which may include globalization, medical ethics, war and terrorism, the role of government in a free society, equality and discrimination.

**Breadth Requirement:** Social & Behavioural Sciences

**PHLB06H3 Business Ethics**

An examination of philosophical issues in ethics, social theory, and theories of human nature as they bear on business. What moral obligations do businesses have? Can social or environmental costs and benefits be calculated in a way relevant to business decisions? Do political ideas have a role within business?

**Exclusion:** MGSC14H3/(MGTC59H3), PHL295H

**Breadth Requirement:** History, Philosophy & Cultural Studies

**PHLB07H3 Ethics**

What is the difference between right and wrong? What is 'the good life'? What is well-being? What is autonomy? These notions are central in ethical theory, law, bioethics, and in the popular imagination. In this course we will explore these concepts in greater depth, and then consider how our views about them shape our views about ethics.

**Breadth Requirement:** History, Philosophy & Cultural Studies

**PHLB09H3 Biomedical Ethics**

This course is an examination of moral and legal problems in medical practice, in biomedical research, and in the development of health policy. Topics may include: concepts of health and disease, patients’ rights, informed consent, allocation of scarce resources, euthanasia, risks and benefits in research and others.

**Exclusion:** PHL281H, (PHL281Y)

**Breadth Requirement:** History, Philosophy & Cultural Studies
PHLB11H3 Philosophy of Law
A discussion of right and rights, justice, legality, and related concepts. Particular topics may include: justifications for the legal enforcement of morality, particular ethical issues arising out of the intersection of law and morality, such as punishment, freedom of expression and censorship, autonomy and paternalism, constitutional protection of human rights. Exclusion: PHL271H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB12H3 Philosophy of Sexuality
Philosophical issues about sex and sexual identity in the light of biological, psychological and ethical theories of sex and gender; the concept of gender; male and female sex roles; perverse sex; sexual liberation; love and sexuality. Exclusion: PHL243H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB13H3 Philosophy and Feminism
What is feminism? What is a woman? Or a man? Are gender relations natural or inevitable? Why do gender relations exist in virtually every society? How do gender relations intersect with other social relations, such as economic class, culture, race, sexual orientation, etc.? Exclusion: PHL267H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB17H3 Introduction to Political Philosophy
This course will introduce some important concepts of and thinkers in political philosophy from the history of political philosophy to the present. These may include Plato, Aristotle, Augustine, Aquinas, Thomas Hobbes, John Locke, Jean-Jacques Rousseau, G.W.F. Hegel, John Stuart Mill, or Karl Marx. Topics discussed may include political and social justice, liberty and the criteria of good government. Exclusion: PHL265H, (POLB71H3); in addition, PHLB17H3 may not be taken after or concurrently with POLB72H3
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB20H3 Belief, Knowledge, and Truth
An examination of the nature of knowledge, and our ability to achieve it. Topics may include the question of whether any of our beliefs can be certain, the problem of scepticism, the scope and limits of human knowledge, the nature of perception, rationality, and theories of truth. Exclusion: (PHL230H)
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB30H3 Existentialism
A study of the views and approaches pioneered by such writers as Kierkegaard, Husserl, Jaspers, Heidegger and Sartre. Existentialism has had influence beyond philosophy, impacting theology, literature and psychotherapy. Characteristic topics include the nature of the self and its relations to the world and society, self-deception, and freedom of choice. Exclusion: PHL220H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB31H3 Introduction to Ancient Philosophy
A survey of some main themes and figures of ancient philosophical thought, concentrating on Plato and Aristotle. Topics include the ultimate nature of reality, knowledge, and the relationship between happiness and virtue. Exclusion: PHL200Y, PHL202H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB33H3 God, Self, World
For many philosophers "God" is a central concept because it signifies the fundamental cause of the universe, even Nature as a whole. Is God just this first cause, or also a benevolent agent? Can we have an idea of God? Can we prove the existence of God? Texts by Plato, Aristotle, Anselm, Hobbes, Pascal, Spinoza, Leibniz, Hume, Kant, Nietzsche, Gödel. Recommended preparation: PHLA10H3 or PHLA11H3
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB35H3 Introduction to Early Modern Philosophy
This course covers the major figures and themes in seventeenth and eighteenth century philosophy. Descartes, Spinoza, Leibniz, Berkeley, and Hume will be covered. Metaphysical and epistemological themes will be emphasized. Exclusion: PHL210Y
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB50H3 Symbolic Logic I
An introduction to formal, symbolic techniques of reasoning. Sentential logic and quantification theory (or predicate logic), including identity will be covered. The emphasis is on appreciation of and practice in techniques, for example, the formal analysis of English statements and arguments, and for construction of clear and rigorous proofs. Exclusion: PHL245H
Breadth Requirement: Quantitative Reasoning

PHLB55H3 Puzzles and Paradoxes
Philosophy often begins with a puzzle or paradox. Zeno once convincingly argued that motion was impossible, but people continue to move. The "liar's paradox" seems to show that everything is both true and false, but that cannot be right. In this course, we will puzzle through these and related issues. Breadth Requirement: Quantitative Reasoning

PHLB60H3 Introduction to Metaphysics
A consideration of problems in metaphysics: the attempt to understand 'how everything fits together' in the most general sense of this phrase. Some issues typically covered include: the existence of God, the nature of time and space, the nature of mind and the problem of the freedom of the will. Exclusion: (PHL231H)
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB61H3 Theories of Mind
An examination of questions concerning the nature of mind. Philosophical questions considered may include: what is consciousness, what is the relation between the mind and the brain, how did the mind evolve and do animals have minds, what is thinking, what are feelings and emotions, and can machines have minds. Exclusion: PHL240H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLB91H3 Theories of Human Nature
An exploration of theories which provide answers to the question 'What is a human being?', answers that might be summarized with catchphrases such as: 'Man is a rational animal,' 'Man is a political animal,' 'Man is inherently individual,' 'Man is inherently social,' etc. Authors studied are: Aristotle, Hobbes, Rousseau, Darwin, Marx, Freud and Sartre. Exclusion: PHL244H, (PHLC91H3)
Breadth Requirement: History, Philosophy & Cultural Studies

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PHLB99H3 Writing for Philosophy
Philosophical writing emphasizes clear reasoning. Students will learn to analyze texts, to discern and assess argument structure, and to develop techniques for writing a clear well-argued analysis of a subject matter. These key writing skills lie at the core of philosophical method and they are also applicable across subject areas and disciplines. This course is strongly recommended for philosophy specialists and majors, open to philosophy minors, and open to all other students by permission of the instructor.
Prerequisite: 0.5 credit in PHL courses, excluding [PHLB50H3 and PHLB55H3]
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC03H3 Topics in the Philosophy of Art
An exploration of some current issues concerning the various forms of art such as: the role of the museum, the loss of beauty and the death of art.
Prerequisite: 5.0 full credits, including PHLB03H3 and 1.0 additional credit in Philosophy
Breadth Requirement: Arts, Literature & Language

PHLC05H3 Ethical Theory
Philosophers offer systematic theories of ethics: theories that simultaneously explain what ethics is, why it matters, and what it tells us to do. This course is a careful reading of classic philosophical texts by the major systematic thinkers in the Western tradition of ethics. Particular authors read may vary from instructor to instructor.
Prerequisite: 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy.
Exclusion: (PHLC01H3), PHL375H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC06H3 Topics in Ethical Theory
Philosophical ethics simultaneously aims to explain what ethics is, why it matters, and what it tells us to do. This is what is meant by the phrase 'ethical theory.' In this class we will explore specific topics in ethical theory in some depth. Specific topics may vary with the instructor.
Prerequisite: 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy.
Exclusion: (PHLC01H3), PHL375H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC09H3 Topics in Continental Philosophy
This course is a reading and discussion intensive course in 20th century German and French European Philosophy. Among the movements we shall study will be phenomenology, existentialism, and structuralism. We will look at the writings of Martin Heidegger, Jean-Paul Sartre, Maurice Merleau-Ponty, Michel Foucault, Gilles Deleuze, among others.
Prerequisite: 5.0 full credits, and an additional 1.5 credits in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC13H3 Topics in Philosophy and Feminism
Feminist philosophy includes both criticism of predominant approaches to philosophy that may be exclusionary for women and others, and the development of new approaches to various areas of philosophy. One or more topics in feminist philosophy will be discussed in some depth. Particular topics will vary with the instructor.
Prerequisite: 5.0 full credits, including one of [PHLB02H3, PHLB05H3, PHLB06H3, PHLB07H3, (PHLB08H3), PHLB09H3, (PHLB36H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC20H3 Theory of Knowledge
A follow up to PHLB20H3. This course will consider one or two epistemological topics in depth, with an emphasis on class discussion.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB06H3, (PHLB07H3), (PHLB72H3), (PHLB90H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Exclusion: PHL332H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC22H3 Topics in Theory of Knowledge
This course addresses particular issues in the theory of knowledge in detail. Topics will vary from year to year but may typically include such topics as The Nature of Knowledge, Skepticism, Epistemic Justification, Rationality and Rational Belief Formation.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB06H3, (PHLB07H3), (PHLB72H3), (PHLB90H3), PHLB81H3, (PHLB86H3)] and an additional 1.0 credit in Philosophy
Exclusion: PHL332H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC23H3 Ancient Philosophy
This course focuses on the thought of Plato and Aristotle, with some attention to the pre-Socratics and Hellenistic thinkers, including ancient atomists and the Stoics.
Prerequisite: 5.0 full credits, including one of [(PHLB16H3), PHLB17H3, PHLB31H3, PHLB33H3] and 1.0 additional credit in Philosophy
Exclusion: (PHL300H), PHL303H, PHL304H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC33H3 Topics in Early Modern Philosophy: Rationalism
In this course we study the major figures of early modern rationalism, Descartes, Spinoza, and Leibniz, with a particular emphasis on topics such as substance, knowledge and sense perception, the mind-body problem, and the existence and nature of God.
Prerequisite: 5.0 full credits, including one of [(PHLB16H3), PHLB31H3, PHLB33H3, PHLB35H3, (PHLB36H3)] and 1.0 additional credit in Philosophy
Exclusion: PHL310H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC36H3 Topics in Early Modern Philosophy: Empiricism
In this course we study major figures of early modern empiricism, Locke, Berkeley, Hume, with a particular emphasis on topics such as substance, knowledge and sense perception, the mind-body problem, and the existence and nature of God.
Prerequisite: 5.0 full credits, including one of [(PHLB16H3), PHLB31H3, PHLB33H3, PHLB35H3, (PHLB36H3)] and 1.0 additional credit in Philosophy
Exclusion: PHL311H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC37H3 Kant
This course focuses on the thought of Immanuel Kant, making connections to some of Kant’s key predecessors such as Hume or Leibniz. The course will focus either on Kant’s metaphysics and epistemology, or his ethics, or his aesthetics.
Prerequisite: 1.5 full credits in Philosophy, including at least one course in the history of philosophy.
Exclusion: PHL314H
Recommended Preparation: PHLB33H3 or PHLB35H3 or (PHLB36H3)
Breadth Requirement: History, Philosophy & Cultural Studies
PHLC43H3 History of Analytic Philosophy
This course explores the foundation of Analytic Philosophy in the late 19th and early 20th century, concentrating on Frege, Russell, and Moore. Special attention paid to the development of mathematical logic, its motivations from and consequences for metaphysics and the philosophy of mind.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and one of [PHLB50H3, PHLC51H3, (PHLC54H3), MATC09H3] and 0.5 additional credits in Philosophy
Exclusion: PHL325H
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC51H3 Symbolic Logic II
After consolidating the material from Symbolic Logic I, we will introduce necessary background for metalogic, the study of the properties of logical systems. We will introduce set theory, historically developed in parallel to logic. We conclude with some basic metatheory of the propositional logic learned in Symbolic Logic I.
Prerequisite: PHLB50H3 or CSCB36H3 or MATB24H3 or MATB43H3
Exclusion: MATC09H3, PHL345H
Breadth Requirement: Quantitative Reasoning

PHLC60H3 Metaphysics
A follow up to PHLB60H3. This course will consider one or two metaphysical topics in depth, with an emphasis on class discussion.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Exclusion: PHL331H, PHL332H (UTM only)
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC72H3 Philosophy of Science
This course will consider one or two topics in the Philosophy of Science in depth, with an emphasis on class discussion.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC80H3 Philosophy of Language
An examination of philosophical issues about language. Philosophical questions to be covered include: what is the relation between mind and language, what is involved in linguistic communication, is language an innate biological feature of human beings, how do words manage to refer to things, and what is meaning.
Prerequisite: 5.0 credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC86H3 Issues in the Philosophy of Mind
Advance Issues in the Philosophy of Mind. For example, an examination of arguments for and against the idea that machines can be conscious, can think, or can feel. Topics may include: Turing's test of machine intelligence, the argument based on Gödel's theorem that there is an unbridgeable gulf between human minds and machine capabilities, Searle's Chinese Room thought experiment.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC89H3 Topics in Analytic Philosophy
Advanced topic(s) in Analytic Philosophy. Sample contemporary topics: realism/antirealism; truth; interrelations among metaphysics, epistemology, philosophy of mind and of science.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC92H3 Political Philosophy
An examination of some central philosophical problems of contemporary political philosophy.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC93H3 Topics in Political Philosophy
This course will examine some contemporary debates in recent political philosophy. Topics discussed may include the nature of justice, liberty and the criteria of good government, and problems of social coordination.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC95H3 Topics in the Philosophy of Mind
Advanced topics in the Philosophy of Mind, such as an exploration of philosophical problems and theories of consciousness. Topics to be examined may include: the nature of consciousness and 'qualitative experience', the existence and nature of animal consciousness, the relation between consciousness and intentionality, as well as various philosophical theories of consciousness.
Prerequisite: 5.0 full credits, including one of [PHLB20H3, PHLB55H3, PHLB60H3, (PHLB70H3), (PHLB72H3), (PHLB80H3), PHLB81H3, (PHLB86H3)] and 1.0 additional credit in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLC99H3 Proseminar in Philosophy
This is an intensive seminar that will develop advanced philosophical skills by focusing on textual analysis, argumentative techniques, writing and oral presentation. The course also aims to foster a cohesive cohort among philosophy specialists and majors. Each year, the course will focus on a different topic drawn from the core areas of philosophy for its subject matter. This course is strongly recommended for Philosophy Specialists and Majors.
Prerequisite: 1.5 credits in Philosophy
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD05H3 Advanced Seminar in Ethics
This course offers an in-depth investigation into selected topics in moral philosophy.
Prerequisite: 3.5 credits in Philosophy, including 2 courses (1.0 credit) at the C-level, at least one of which must be PHLC05H3 or PHLC06H3.
Exclusion: PHL407H, PHL475H
Breadth Requirement: History, Philosophy & Cultural Studies
PHLD20H3 Advanced Seminar in Theory of Knowledge
This course addresses core issues in the theory of knowledge at an advanced level. Topics to be discussed may include The Nature of Knowledge, Scepticism, Epistemic Justification, Rationality and Rational Belief Formation.
Prerequisite: 3.5 credits in Philosophy, including PHLC20H3 or PHLC22H3 and an additional 0.5 credit at the C-level
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD35H3 Advanced Seminar in Rationalism
This course offers in-depth examination of the philosophical approach offered by one of the three principal Rationalist philosophers, Descartes, Spinoza or Leibniz.
Prerequisite: 3.5 credits in Philosophy, including at least 2 courses (1.0 credit) at the C-level, one of which must be in the history of philosophy.
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD43H3 Advanced Seminar in History of Analytic Philosophy
This course examines Analytic Philosophy in the mid-20th century, concentrating on Wittgenstein, Ramsey, Carnap, and Quine. Special attention paid to the metaphysical foundations of logic, and the nature of linguistic meaning, including the relations between "truth-conditional" and "verificationist" theories.
Prerequisite: 3.5 credits in Philosophy, including 1.0 credit (2 courses) at the C-level, one of which must be PHLC43H3.
Exclusion: PHL325H, PHLC44H3
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD51H3 Metalogic
Symbolic Logic deals with formal languages: you work inside formal proof systems, and also consider the "semantics", dealing with truth, of formal languages. Instead of working inside formal systems, Metalogic treats systems themselves as objects of study, from the outside.
Prerequisite: PHLC51H3
Exclusion: PHL348H, (PHLC54H3)
Breadth Requirement: Quantitative Reasoning

PHLD78H3 Advanced Seminar in Political Philosophy
This advanced seminar will delve more deeply into an issue in political philosophy. Topics will vary from year to year, but some examples include: distributive justice, human rights, and the political morality of freedom. Students will be required to present material to the class at least once during the semester.
Prerequisite: 3.5 credits in Philosophy, including at least 1.0 credit at the C-level
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD79H3 Advanced Seminar in Metaphysics
This seminar addresses core issues in metaphysics. Topics to be discussed may include the nature of persons and personal identity, whether physicalism is true, what is the relation of mind to reality in general, the nature of animal minds and the question of whether machines can possess minds.
Prerequisite: 3.5 credits in Philosophy, at least 1.0 credit at the C-level.

PHLD87H3 Advanced Seminar in Philosophy of Mind
This course offers in-depth examination of selected contemporary theories and issues in philosophy of mind, such as theories of perception or of consciousness, and contemporary research examining whether minds must be embodied or embedded in a larger environment.
Prerequisite: 3.5 credits in Philosophy, including at least 2 half credit courses at the C-level, including PHLC95H3 or PHLC86H3.
Exclusion: PHL405H
Recommended Preparation: PHLC95H3
Breadth Requirement: History, Philosophy & Cultural Studies

PHLD90H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD91H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD92H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD93H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD94H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD95H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD96H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD97H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.

PHLD98H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.
PHLD99H3 Independent Study
These courses are intended for qualified students who wish to engage in advanced level work on a well-defined topic of their choice. These courses are only available with the prior arrangement of an instructor.
Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options include:

- Physical and Mathematical Sciences (Specialist), Honours Bachelor of Science/ Master of Teaching

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

Physical Sciences Programs

SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)

Supervisor: P. Artymowicz (416-287-7244) Email: pawel@utsc.utoronto.ca

This Program provides a framework of courses in the Physical Sciences based upon a firm Mathematical foundation, relating Astronomy, Chemistry, Computer Science, Physics and Statistics. It prepares students for careers in teaching, industry, and government as well as for further studies at the graduate level.

Program Requirements

This program requires 15.5 credits as follows:

First Year:
- PHYA10H3 Introduction to Physics IA
- PHYA21H3 Introduction to Physics IIA
- CHMA10H3 Introductory Chemistry I: Structure and Bonding
- CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
- MATA30H3 Calculus I for Physical Sciences
- MATA23H3 Linear Algebra I
- [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]

Second Year
- PHYB10H3 Intermediate Physics Laboratory I
- PHYB56H3 Introduction to Quantum Physics
- PHYB21H3 Electricity and Magnetism
- PHYB52H3 Thermal Physics
- MATB24H3 Linear Algebra II
- MATB41H3 Techniques of the Calculus of Several Variables I
- MATB42H3 Techniques of the Calculus of Several Variables II
- MATB44H3 Differential Equations I

Second or Third Year
- PHYB54H3 Mechanics: From Oscillations to Chaos
- ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
- CHMB20H3 Chemical Thermodynamics and Elementary Kinetics
- CHMB21H3 Chemical Structure and Spectroscopy
- MATB61H3 Linear Programming
- PSCB57H3 Introduction to Scientific Computing
- CSCB58H3 Computer Organization
- STAB52H3 An Introduction to Probability

Third or Fourth Year
- 4.0 credits from:
  - ASTC25H3 Astrophysics of Planetary Systems
  - MATC34H3 Complex Variables
  - MATC46H3 Differential Equations II
  - PHYC50H3 Electromagnetic Theory
MAJOR PROGRAM IN PHYSICAL SCIENCES (SCIENCE)

Supervisor: G. Lorincz (416-287-7248) Email: lorincz@utsc.utoronto.ca

The Major Program in Physical Sciences is intended for students desiring a general background in the physical sciences (with emphasis in the area of astronomy, physics and physical chemistry) but who do not intend to pursue graduate studies.

Parallel major Programs for students more interested in the mathematical sciences or in chemistry are offered in Mathematical Sciences, in Chemistry, and in Biochemistry.

Program Requirements:

This program requires 8.0 full credits as follows:

First Year:
- PHYA10H3 Introduction to Physics IA
- PHYA21H3 Introduction to Physics IIA
- CHMA10H3 Introductory Chemistry I: Structure and Bonding
- CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
- MATA30H3 Calculus I for Physical Sciences
- MATA23H3 Linear Algebra I

Second or Third Year

Five of:
- PHYB10H3 Intermediate Physics Laboratory I
- PHYB21H3 Electricity and Magnetism
- PHYB52H3 Thermal Physics
- PHYB54H3 Mechanics: From Oscillations to Chaos
- PHYB56H3 Introduction to Quantum Physics
- MATB24H3 Linear Algebra II
- MATB41H3 Techniques of the Calculus of Several Variables I
- MATB42H3 Techniques of the Calculus of Several Variables II
- MATB44H3 Differential Equations I
- ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
- CHMB20H3 Chemical Thermodynamics and Elementary Kinetics
- CHMB21H3 Chemical Structure and Spectroscopy
- STAB22H3 Statistics I

Third or Fourth Year

Four of:
- ASTC25H3 Astrophysics of Planetary Systems
- MATC34H3 Complex Variables
- MATC46H3 Differential Equations II
- PHYC50H3 Electromagnetic Theory
- PHYC56H3 Quantum Mechanics I
- PHYC11H3 Intermediate Physics Laboratory II
- PHYC54H3 Classical Mechanics
- PHYD37H3 Introduction to Fluid Mechanics
- PHYD38H3 Introduction to Nonlinear Systems and Chaos
- PSCB67H3 Introduction to Scientific Computing
- PSCD02H3 Current Questions in Mathematics and Science
- PHYD26H3 Planetary Geophysics
- PSCD50H3 Advanced Topics in Quantum Mechanics

[PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]
Physical Sciences Courses

PSCA01H3 Communicating Science: Film, Media, Journalism, and Society
Communicating complex science issues to a wider audience remains a major challenge. This course will use film, media, journalism and science experts to explore the role of science and scientists in society. Students will engage with media and academic experts to get an insight into the ‘behind the scenes’ world of filmmaking, media, journalism, and scientific reporting. The course will be of interest to all students of environmental science, media, education, journalism and political science.
Breadth Requirement: Natural Sciences

PSCB57H3 Introduction to Scientific Computing
Scientific computing is a rapidly growing field because computers can solve previously intractable problems and simulate natural processes governed by equations that do not have analytic solutions. During the first part of this course, students will learn numerical algorithms for various standard tasks such as root finding, integration, data fitting, interpolation and visualization. In the second part, students will learn how to model real-world systems from various branches of science. At the end of the course, students will be expected to write small programs by themselves. Assignments will regularly include programming exercises.
Prerequisite: [MATA36H3 or MATA37H3] and one A-level science course
Breadth Requirement: Quantitative Reasoning

PSCD01H3 The Physical Sciences in Contemporary Society
Current issues involving physical science in modern society. Topics include: complex nature of the scientific method; inter-connection between theory, concepts and experimental data; characteristics of premature, pathological and pseudo-science; organization and funding of scientific research in Canada; role of communication and publishing; public misunderstanding of scientific method. These will be discussed using issues arising in chemistry, computer science, earth sciences, mathematics and physics.
Note: Where PSCD01H3 is a Program requirement, it may be replaced by PHY341H with the approval of the Program supervisor.
Prerequisite: Completion of at least one-half of the credits required in any one of the programs offered by the Department of Physical & Environmental Sciences.
Corequisite: Continued participation in one of the Physical and Environmental Sciences programs.
Exclusion: PHY341H
Breadth Requirement: Social & Behavioural Sciences

PSCD02H3 Current Questions in Mathematics and Science
Topics of current prominence arising in chemistry, computer science, earth sciences, mathematics and physics will be discussed, usually by faculty or outside guests who are close to the areas of prominence. Topics will vary from year to year as the subject areas evolve.
Prerequisite: Completion of at least 3.5 credits of a Physical Sciences program.
Corequisite: Continued participation in one of the Physical Sciences programs.
Exclusion: PHY342H
Breadth Requirement: Natural Sciences

PSCD50H3 Advanced Topics in Quantum Mechanics
This course provides exposure to a variety of theoretical concepts and practical methods for treating various problems in quantum mechanics. Topics include perturbation theory, variational approach, adiabatic approximation, mean field approximation, Hamiltonian symmetry implementation, light-matter interaction, second quantization.
Prerequisite: Any one of the following courses [PHYC56H3 or CHMC20H3 or CHMC25H3]
Exclusion: PHY456H, CHM423H, CHM421H, JCP421H
Breadth Requirement: Natural Sciences
Physics and Astrophysics

Faculty List

- P. Arzymowicz, M.Sc. (Warsaw University), Ph.D. (N. Copernicus Astron. Center, Polish Academy of Sciences), Professor
- J. Bayer Carpintero, B.Sc. (Los Andes, Bogota), M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- C.C. Dyer, B.Sc. (Bishop's), M.Sc., Ph.D. (Toronto), Professor Emeritus
- W.A. Gough, B.Sc. (Waterloo), M.Sc. (Toronto), Ph.D. (McGill), Professor
- A. Jacobs, B.A.Sc., B.Sc. (Waterloo), Ph.D. (Illinois), Professor Emeritus
- J.D. King, B.A. (Toronto), Ph.D. (Saskatchewan), Professor Emeritus
- G. Lorincz, B.Sc., M.Sc. (Toronto), Associate Professor, Teaching Stream
- J.P. Lowman, B.Sc. (Toronto), M.Sc., Ph.D. (York, Canada), Associate Professor
- K. Menou, B.Sc. (Angers), M.Sc. (Toulouse), Ph.D. (Paris XI), Associate Professor
- J.M. Perz, B.A.Sc., M.A.Sc. (Toronto), Ph.D. (Canant), Professor Emeritus
- H. Rein, M.A.St. (Cambridge), Ph.D (Cambridge) Assistant Professor
- S. Tawfiq, B.Sc., M.Sc. (Al-Mustansiriyah), Ph.D. (Trieste, Italy), Associate Professor, Teaching Stream
- D. Valencia, B.Sc., M.Sc. (Toronto), Ph.D. (Harvard), Assistant Professor
- M. Wells, B.Sc., Ph.D (Australian National) Associate Professor

Physics is the study of the basic laws that govern how material objects move and influence each other. Astrophysics is the application of the principles of Physics to the study of objects in the universe and their interactions and evolution, and thus covers the study of objects such as planets, stars, galaxies, black holes, and the universe as a whole, known as cosmology. The laws of Physics can accurately describe the effect of a star on the motion of a planet, or of the Earth on the motion of a satellite, the effect of a molecule on a nearby atom, or of an atomic nucleus on an electron. Although Newton's laws of motion adequately describe some of these situations, in most cases it is necessary to apply the more recently discovered refinements of these laws - quantum mechanics and Einstein's theories of special and general relativity, together with the understanding of electric and magnetic effects so beautifully synthesized in Maxwell's theory of electromagnetism. From these basic principles many of the properties of gases, liquids, solids, plasmas, nuclear matter, planets, stars, etc. can be related to the interactions among the individual units of which these forms of matter are composed. Physics allows us to describe the properties of light, sound and heat up to the point where these enter our senses, as well as x-ray, radio, cosmic and other radiations of which we are not directly aware. The remarkable properties of some materials under extreme conditions of temperature and pressure, and of other materials when an electric current passes through them, form the basis of a wide range of applications in the technology of our every-day lives, from microwave ovens to cellular telephones and GPS navigation. It is possible to develop, in mathematical language, theories that so accurately describe physical phenomena that they may be used to predict the results of many carefully controlled experiments. The study of physics and astrophysics, therefore, involves both mathematics and the techniques of experimentation.

At the University of Toronto Scarborough, students who are interested in Physics and Astrophysics can take the Specialist Program in Physics and Astrophysics, the Specialist Program in Physical & Mathematical Sciences, the Major Program in Physics and Astrophysics, the Major Program in Physical Sciences, the Specialist Program in Environmental Physics, or the Specialist Program in Computer Science and Physical Sciences (Computer Science and Physics stream).

Notes:
1. PHYA10H3 and PHYA11H3 both require MATA30H3 as a corequisite.
2. Any one of MATA35H3, MATA36H3, or MATA37H3 is a suitable corequisite for PHYA21H3 and PHYA22H3. However, some higher level MAT courses have MATA37H3 as a prerequisite. No Physics and Astrophysics programs require MATA37H3 explicitly, so students should check to see if there is a prerequisite of MATA37H3 for MAT courses required outside the Physics and Astrophysics program requirements. MATA37H3 has a prerequisite of CSCA67H3 for students planning on taking both Mathematics and Physics programs.
3. Prerequisites and corequisites for PHY, PSC, and AST courses will be enforced.

Combined Degree Programs, Honours Bachelor of Science (various) or Honours Bachelor of Arts (various)/ Master of Teaching

The Combined Degree Programs for Honours Bachelor of Science/Honours Bachelor of Arts programs at UTSC (various) and the Master of Teaching (MT) offered by the Ontario Institute for Studies in Education are designed for students interested in studying the intersections of the Physical Sciences, Mathematical Sciences, or French, and Education coupled with professional teacher preparation. They allow exceptional students who are registered in specified Specialist and Major programs to apply during their third year of studies, and be considered, for admission to the MT.

The Combined Degree Programs options include:
- Environmental Physics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Master of Teaching
- Physics and Astrophysics (Specialist), Honours Bachelor of Science/ Master of Teaching

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

Service Learning and Outreach (Previously known as Science Engagement)
For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.
Physics and Astrophysics Programs

SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS (SCIENCE)

The Specialist Program in Environmental Physics (B.Sc.) includes a co-operative option. For more information and details regarding the program, and its admission requirements, please see the Environmental Science section of the Calendar at: http://www.utsc.utoronto.ca/~registrar/calendars/calendar?Environmental_Science.html

Supervisors of Studies: J. Lowman (416 208-4880) Email: lowman@utsc.utoronto.ca and T. Mohsin (416 287-7245) Email: tanzina.mohsin@utoronto.ca

Program Requirements
Total Requirements: 15.5 full credits

First Year (4.0 credits):
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
MATA30H3 Calculus I for Physical Sciences
MATA36H3 Calculus II for Physical Sciences
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
EESA06H3 Introduction to Planet Earth
MATA23H3 Linear Algebra I

Second Year (4.5 credits):
PHYB10H3 Intermediate Physics Laboratory I
PHYB21H3 Electricity and Magnetism
PHYB52H3 Thermal Physics
PHYB54H3 Mechanics: From Oscillations to Chaos
MATB41H3 Techniques of Calculus of Several Variables I
MATB42H3 Techniques of Calculus of Several Variables II
MATB44H3 Differential Equations I
Two of:
EESB02H3 Principles of Geomorphology
EESB03H3 Principles of Climatology
EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science
EESB15H3 Earth History

Third Year (4.0 credits):
PHYB56H3 Introduction to Quantum Physics
PHYC11H3 Intermediate Physics Laboratory II
PSCB57H3 Introduction to Scientific Computing
MATC46H3 Differential Equations II
STAB22H3 Statistics I
One of:
PHYC50H3 Electromagnetic Theory
PHYC54H3 Classical Mechanics
Two of:
CHMB55H3 Environmental Chemistry
EESC07H3 Groundwater
EESC18H3 Limnology
EESC19H3 Oceanography
EESC20H3 Geochemistry
EESC31H3 Glacial Geology

Fourth Year (3.0 credits):
PHYD37H3 Introduction to Fluid Mechanics
PHYD38H3 Nonlinear Systems and Chaos
Four of:
ASTC25H3 Astrophysics of Planetary Systems
EESC03H3 Geographic Information Systems and Remote Sensing
EESD02H3 Contaminant Hydrogeology
EESD06H3 Climate Change Impact Assessment
EESD09H3 Research Project in Environmental Science

Supervisors of Studies: J. Lowman (416 208-4880) Email: lowman@utsc.utoronto.ca and T. Mohsin (416 287-7245) Email: tanzina.mohsin@utoronto.ca

Program Requirements
Total Requirements: 15.5 full credits

First Year (4.0 credits):
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
MATA30H3 Calculus I for Physical Sciences
MATA36H3 Calculus II for Physical Sciences
CHMA10H3 Introductory Chemistry I: Structure and Bonding
CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms
EESA06H3 Introduction to Planet Earth
MATA23H3 Linear Algebra I

Second Year (4.5 credits):
PHYB10H3 Intermediate Physics Laboratory I
PHYB21H3 Electricity and Magnetism
PHYB52H3 Thermal Physics
PHYB54H3 Mechanics: From Oscillations to Chaos
MATB41H3 Techniques of Calculus of Several Variables I
MATB42H3 Techniques of Calculus of Several Variables II
MATB44H3 Differential Equations I
Two of:
EESB02H3 Principles of Geomorphology
EESB03H3 Principles of Climatology
EESB04H3 Principles of Hydrology
EESB05H3 Principles of Soil Science
EESB15H3 Earth History

Third Year (4.0 credits):
PHYB56H3 Introduction to Quantum Physics
PHYC11H3 Intermediate Physics Laboratory II
PSCB57H3 Introduction to Scientific Computing
MATC46H3 Differential Equations II
STAB22H3 Statistics I
One of:
PHYC50H3 Electromagnetic Theory
PHYC54H3 Classical Mechanics
Two of:
CHMB55H3 Environmental Chemistry
EESC07H3 Groundwater
EESC18H3 Limnology
EESC19H3 Oceanography
EESC20H3 Geochemistry
EESC31H3 Glacial Geology

Fourth Year (3.0 credits):
PHYD37H3 Introduction to Fluid Mechanics
PHYD38H3 Nonlinear Systems and Chaos
Four of:
ASTC25H3 Astrophysics of Planetary Systems
EESC03H3 Geographic Information Systems and Remote Sensing
EESD02H3 Contaminant Hydrogeology
EESD06H3 Climate Change Impact Assessment
EESD09H3 Research Project in Environmental Science

Supervisors of Studies: J. Lowman (416 208-4880) Email: lowman@utsc.utoronto.ca and T. Mohsin (416 287-7245) Email: tanzina.mohsin@utoronto.ca
EESD13H3 Environmental Law, Policy and Ethics
PHYC50H3 Electromagnetic Theory
PHYC54H3 Classical Mechanics
PHYD01H3 Research Project in Physics and Astrophysics*
PHYD26H3 Planetary Geophysics
PHYD72H3 Supervised Reading in Physics and Astrophysics*

*no more than two of EESD10Y3, PHYD01H3, and PHYD72H3 may be counted as fulfilling the program requirements.

NOTE: Where any course appears on more than one option list, it may only be counted as fulfilling the requirements for one of those lists of options.

SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)
See the Physical Sciences section of this Calendar for program description.

SPECIALIST PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)
Supervisor: S. Tawfiq (416-287-7243) Email: tawfiq@utsc.utoronto.ca

Program Requirements:
The Program requires 13.0 full credits as follows:

First Year
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
MATA30H3 Calculus I for Physical Sciences
MATA23H3 Linear Algebra I
[MATA36H3 Calculus II for Physical Sciences
or
MATA37H3 Calculus II for Mathematical Sciences]

Second Year
ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
PHYB10H3 Intermediate Physics Laboratory I
PHYB56H3 Introduction to Quantum Physics
PHYB21H3 Electricity and Magnetism
PHYB52H3 Thermal Physics
PHYB54H3 Mechanics: From Oscillations to Chaos
MATB41H3 Techniques of the Calculus of Several Variables I
MATB42H3 Techniques of the Calculus of Several Variables II
MATB44H3 Differential Equations I

Third Year
PHYC50H3 Electromagnetic Theory
PHYC56H3 Quantum Mechanics I
PHYC11H3 Intermediate Physics Laboratory II
PHYC54H3 Classical Mechanics
PSCB57H3 Introduction to Scientific Computing
MATC34H3 Complex Variables
MATC46H3 Differential Equations II

Fourth Year
Three of:
ASTC25H3 Astrophysics of Planetary Systems
PHYD26H3 Planetary Geophysics
PHYD37H3 Introduction to Fluid Mechanics
PHYD38H3 Introduction to Nonlinear Systems and Chaos
PHY452H3 Basic Statistical Mechanics
PHY456H3 Quantum Mechanics II
PHY483H Relativity Theory I
PHY484H Relativity Theory II
PHY487H Condensed Matter Physics
Physics and Astrophysics

PHY489H Introduction to High Energy Physics
PHY491H Current Interpretations of Quantum Mechanics
PHY492H Advanced Atmospheric Physics
PHY493H Geophysical Imaging I
PHY494H Geophysical Imaging II
PHY495H Experimental Global Geophysics
PHY496H Experimental Applied Geophysics
PSCD50H3 Advanced Topics in Quantum Mechanics
One of:
PHYD01H3 Research Project in Physics and Astrophysics
PHYD72H3 Supervised Reading in Physics and Astrophysics
One additional 0.5 credit from a course in AST or PHY at the C-, D-, 300-, or 400-level, or
PSCD02H3 Current Questions in Mathematics and Science

MAJOR PROGRAM IN PHYSICAL SCIENCES (SCIENCE)

Supervisor: G. Lorincz (416-287-7248) Email: lorincz@utsc.utoronto.ca

See the Physical Sciences section of this Calendar for program description.

MAJOR PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)

Supervisor: S. Tawfiq (416-2087-7243) Email: tawfiq@utsc.utoronto.ca

Program Requirements
This program requires 8.5 credits as follows:

First Year
PHYA10H3 Introduction to Physics IA
PHYA21H3 Introduction to Physics IIA
MATA30H3 Calculus I for Physical Sciences
MATA23H3 Linear Algebra I
[MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences]

Second and Later Years
ASTB23H3 Astrophysics of Stars, Galaxies and the Universe
MATB41H3 Techniques of the Calculus of Several Variables I
MATB42H3 Techniques of the Calculus of Several Variables II
MATB44H3 Differential Equations I
PHYB10H3 Intermediate Physics Laboratory I

Three of:
PHYB56H3 Introduction to Quantum Physics
PHYB21H3 Electricity and Magnetism
PHYB52H3 Thermal Physics
PHYB54H3 Mechanics: From Oscillations to Chaos

A total of 2.0 credits from:
ASTC25H3 Astrophysics of Planetary Systems
MATC34H3 Complex Variables
MATC46H3 Differential Equations II
PHYC50H3 Electromagnetic Theory
PHYC56H3 Quantum Mechanics I
PHYC11H3 Intermediate Physics Laboratory II
PHYC54H3 Classical Mechanics
PHYD26H3 Planetary Geophysics
PHYD37H3 Introduction to Fluid Mechanics
PHYD38H3 Nonlinear Systems and Chaos
PSCB57H3 Introduction to Scientific Computing
PSCD02H3 Current Questions in Mathematics and Science
PSCD50H3 Advanced Topics in Quantum Mechanics
[PHYD01H3 Research Project in Physics and Astrophysics or PHYD72H3 Supervised Reading in Physics and Astrophysics]
Physics and Astrophysics Courses

PHYA10H3 Introduction to Physics IA
The course is intended for students in physical, environmental and mathematical sciences. The course introduces the basic concepts used to describe the physical world with mechanics as the working example. This includes mechanical systems (kinematics and dynamics), energy, momentum, conservation laws, waves, and oscillatory motion. Prerequisite: Physics 12U - SPH4U (Grade 12 Physics) & Calculus and Vectors (MCV4U) & Advanced Functions (MHF4U) Corequisite: MAT30H3 or MAT31H3 Exclusion: PHYA11H3, PHY131H, PHY135Y, PHY151H, (PHY138Y), (PHY138Y)

PHYA11H3 Introduction to Physics IB
This first course in Physics at the university level is intended for students enrolled in the Life sciences. It covers fundamental concepts of classical physics and its applications to macroscopic systems in one and three dimensions. It deals with two main themes; which are Particle and Fluid Mechanics and Waves and Oscillations. The approach will be phenomenological with applications related to life and biological sciences. Prerequisite: Grade 12 Advanced Functions (MHF4U) and Grade 12 Calculus and Vectors (MCV4U) Corequisite: (MATA20H3) or MATA29H3 or MATA30H3 or MATA31H3 Exclusion: PHYA10H3, PHY131H, PHY135Y, PHY151H, (PHY110Y), (PHY138Y)
Recommended Preparation: Grade 12 Physics (SPH4U)
Breadth Requirement: Natural Sciences

PHYA21H3 Introduction to Physics IIA
This second physics course is intended for students in physical and mathematical sciences programs. Topics include electromagnetism and special relativity. Prerequisite: PHYA10H3, [MAT30H3 or MAT31H3] Corequisite: MATA35H3 or MATA36H3 or MATA37H3. Note: MATA35H3 does not allow for many future programs in science. Exclusion: PHYA22H3, (PHY110Y), PHY132H, PHY135Y, (PHY138Y), PHY152H
Breadth Requirement: Natural Sciences

PHYA22H3 Introduction to Physics IIB
The course covers the main concepts of Electricity and Magnetism, Optics, and Atomic and Nuclear Physics. It provides basic knowledge of these topics with particular emphasis on its applications in the life sciences. It also covers some of the applications of modern physics such as atomic physics and nuclear radiation. Prerequisite: [PHYA10H3 or PHYA11H3 or (PHYA01H3)] and [MATA29H3 or MATA30H3 or MATA31H3] Corequisite: (MATA21H3) or MATA35H3 or MATA36H3 or MATA37H3. Note: (MATA21H3) & MATA35H3 do not allow for many future programs in science. Exclusion: PHYA21H3, (PHY110Y), PHY132H, PHY135Y, (PHY138Y), PHY152H
Breadth Requirement: Natural Sciences

PHYB01H3 Modern Physics for Non-Scientists
A conceptual overview of some of the most interesting advances in physics and the intellectual background in which they occurred. The interrelationship of the actual practice of physics and its cultural and intellectual context is emphasized. (Space time; Symmetries; Quantum Worlds; Chaos.) Prerequisite: 4.0 credits Enrolment Limits: 50 Breadth Requirement: Natural Sciences

PHYB10H3 Intermediate Physics Laboratory I
Experimental and theoretical study of AC and DC circuits with applications to measurements using transducers and electronic instrumentation. Practical examples are used to illustrate several physical systems. Prerequisite: PHYA21H3, [MATA36H3 or MATA37H3] Corequisite: MATB41H3 Exclusion: PHYB23H3 Enrolment Limits: 25 Breadth Requirement: Natural Sciences

PHYB21H3 Electricity and Magnetism
A first course at the intermediate level in electricity and magnetism. The course provides an in-depth study of electrostatics and magnetostatics. Topics examined include Coulomb's Law, Gauss's Law, electrostatic energy, conductors, Ampere's Law, magnetostatic energy, Lorentz Force, Faraday's Law and Maxwell's equations. Prerequisite: PHYA21H3 & MATB41H3 Corequisite: MATB42H3 Exclusion: PHY241H, PHY251H
Breadth Requirement: Natural Sciences

PHYB25H3 Thermal Physics
The quantum statistical basis of macroscopic systems; definition of entropy in terms of the number of accessible states of a many particle system leading to simple expressions for absolute temperature, the canonical distribution, and the laws of thermodynamics. Specific effects of quantum statistics at high densities and low temperatures. Prerequisite: [PHYA21H3 or PHY132H or (PHY138Y) or PHY152H] and MATB41H3 Corequisite: MATB42H3 Exclusion: PHY252H
Breadth Requirement: Natural Sciences

PHYB54H3 Mechanics: From Oscillations to Chaos
The linear, nonlinear and chaotic behaviour of classical mechanical systems such as oscillators, rotating bodies, and central field systems. The course will develop analytical and numerical tools to solve such systems and determine their basic properties. The course will include mathematical analysis, numerical exercises (Python), and demonstrations of mechanical systems. Prerequisite: PHYA21H3, MATB41H3, MATB44H3 Corequisite: MATB42H3 Exclusion: PHY254H, (PHYB20H3)
Breadth Requirement: Natural Sciences
PHYB56H3 Introduction to Quantum Physics
The course introduces the basic concepts of Quantum Physics and Quantum Mechanics starting with the experimental basis and the properties of the wave function. Schrödinger's equation will be introduced with some applications in one dimension. Topics include Stern-Gerlach effect; harmonic oscillator; uncertainty principle; interference packets; scattering and tunnelling in one-dimension.
Prerequisite: PHYA21H3, MATA36H3
Corequisite: MATB41H3
Exclusion: PHY256H, (PHYB25H3)
Breadth Requirement: Natural Sciences

PHYC11H3 Intermediate Physics Laboratory II
The main objective of this course is to help students develop skills in experimental physics by introducing them to a range of important measuring techniques and associated physical phenomena. Students will carry on several experiments in Physics and Astrophysics including electricity and magnetism, optics, solid state physics, atomic and nuclear physics.
Prerequisite: PHYB10H3, PHYB21H3, PHYB52H3
Corequisite: PHYB21H3
Exclusion: (PHYB11H3)
Enrolment Limits: 20
Breadth Requirement: Natural Sciences

PHYC50H3 Electromagnetic Theory
Solving Poisson and Laplace equations via method of images and separation of variables, Multipole expansion for electrostatics, atomic dipoles and polarizability, polarization in dielectrics, Ampere and Biot-Savart laws, Multipole expansion in magnetostatics, magnetic dipoles, magnetization in matter, Maxwell's equations in matter.
Prerequisite: PHYB54H3, PHYB21H3, MATA23H3, MATB42H3, MATB44H3
Exclusion: PHY350H
Breadth Requirement: Natural Sciences

PHYC54H3 Classical Mechanics
A course that will concentrate in the study of symmetry and conservation laws, stability and instability, generalized co-ordinates, Hamilton's principle, Hamilton's equations, phase space, Liouville's theorem, canonical transformations, Poisson brackets, Noether's theorem.
Prerequisite: PHYB54H3, MATB44H3
Exclusion: PHY354H
Breadth Requirement: Natural Sciences

PHYC56H3 Quantum Mechanics I
The course builds on the basic concepts of quantum theory students learned in PHYB56H3. Topics include the general structure of wave mechanics; eigenfunctions and eigenvalues; operators; orbital angular momentum; spherical harmonics; central potential; separation of variables; hydrogen atom; Dirac notation; operator methods; harmonic oscillator and spin.
Prerequisite: PHYB56H3, PHYB21H3, MATA23H3, MATB42H3, MATB44H3
Exclusion: PHY356H
Breadth Requirement: Natural Sciences

PHYD01H3 Research Project in Physics and Astrophysics
Introduces students to current research in physics or astrophysics under the supervision of a professorial faculty member. Students undertake an independent project that can be of a theoretical, computational or experimental nature. Evaluation is by the supervising faculty member in consultation with the course supervisor. Students must obtain consent of the course supervisor to enroll in this course.
Prerequisite: 14.0 credits, cumulative GPA of at least 2.5, and permission from the coordinator.
Exclusion: PHY478H, PHY479Y1
Breadth Requirement: Natural Sciences

PHYD26H3 Planetary Geophysics
A course introducing some of the key physical processing governing the evolution of planets and moons. Topics covered will include: planetary heat sources and thermal evolution, effects of high temperature and pressure in planetary interiors, planetary structure and global shape; gravity, rotation, composition and elasticity.
Prerequisite: Completion of at least 1.0 credit at the C-level in PHY or AST courses
Breadth Requirement: Natural Sciences
NOTE: No previous knowledge of Earth Sciences or Astrophysics is assumed.

PHYD27H3 Physics of Climate Modeling
A course introducing the main physical concepts needed to describe, model and understand the climate systems of Earth and other planets. Topics covered will include: the primitive equations of meteorology, radiative transfer in atmospheres, processes involved in atmosphere-surface exchanges, atmospheric chemistry (condensable species, atmospheric opacities), numerical methods for climate modeling.
Prerequisite: PHYB52H3 and PSCB57H3 and MATC46H3
Breadth Requirement: Natural Sciences
NOTE: No previous knowledge of Climate Science is assumed.

PHYD28H3 Introduction to Magnetohydrodynamics for Astrophysics and Geophysics
A course introducing the basic concepts of magnetohydrodynamics (broadly defined as the hydrodynamics of magnetized fluids). Topics covered will include: the essentials of hydrodynamics, the magnetohydrodynamics (MHD) approximation, ideal and non-ideal MHD regimes, MHD waves and shocks, astrophysical and geophysical applications of MHD.
Prerequisite: PSCB57H3 and PHYC50H3 and MATC46H3
Breadth Requirement: Natural Sciences

PHYD37H3 Introduction to Fluid Mechanics
A course describing and analyzing the dynamics of fluids. Topics include: Continuum mechanics; conservation of mass, momentum and energy; constitutive equations; tensor calculus; dimensional analysis; Navier-Stokes fluid equations; Reynolds number; Inviscid and viscous flows; heat conduction and fluid convection; Bernoulli's equation; basic concepts on boundary layers, waves, turbulence.
Prerequisite: PHYC54H3
Exclusion: PHY454H
Breadth Requirement: Natural Sciences
PHYD38H3 Nonlinear Systems and Chaos
The theory of nonlinear dynamical systems with applications to many areas of physics and astronomy. Topics include stability, bifurcations, chaos, universality, maps, strange attractors and fractals. Geometric, analytical and computational methods will be developed.
Prerequisite: PHYC54H3
Exclusion: PHY460H
Breadth Requirement: Natural Sciences

PHYD72H3 Supervised Reading in Physics and Astrophysics
An individual study program chosen by the student with the advice of, and under the direction of a faculty member. A student may take advantage of this course either to specialize further in a field of interest or to explore interdisciplinary fields not available in the regular syllabus.
Prerequisite: 14.0 credits, cumulative GPA of at least 2.5, and permission from the coordinator.
Exclusion: PHY371H, PHY372H, PHY471H, PHY472H
Breadth Requirement: Natural Sciences
Political Science

Faculty

Faculty List

- A. Ahmad, B.A., M.A. (Toronto), Ph.D. (McGill), Assistant Professor
- E.G. Andrew, B.A. (British Columbia), Ph.D. (London), Professor Emeritus
- A. Braley-Rattai, B.A., M.A. (York), Ph.D. (Western), Lecturer
- C. Cochrane, B.A. (St. Thomas), M.A. (McGill), Ph.D. (Toronto), Assistant Professor
- S.J. Colman, M.A. (Oxon.), Professor Emeritus
- D. Fu, B.A. (Minnesota), M.Phil, Ph.D. (Oxford), Assistant Professor
- M. Hoffmann, B.S. (Michigan Technological University), Ph.D. (George Washington University), Professor
- R. Hurl, B.A. (Toronto), M.A., Ph.D. (Cornell), Lecturer
- P. Kingston, B.A. (Toronto), M.A. (London), Ph.D. (Oxford), Associate Professor
- N. Klenk, B.Sc., M.Sc. (McGill), Ph.D. (UBC), Assistant Professor
- M.L. Kohn, B.A. (Williams College), M.A., Ph.D. (Cornell University), Professor
- R. Levine, B.A. (Rochester), Ph.D. (Duke), Assistant Professor, Teaching Stream
- C. Norrolof, B.A., M.A. (Lund), Ph.D. (Geneva), Associate Professor
- S. Renckens, B.A., M.A., M.Sc. (Leuven), Ph.D. (Yale), Assistant Professor
- A. Rubinoff, A.B. (Allegeny), M.A., Ph.D. (Chicago), Professor Emeritus
- R. Schertzer, B.A. (Carleton), M.Sc., Ph.D. (London School of Economics), Assistant Professor
- T. Shanks, B.A. (Berkeley), Ph.D. (Northwestern), Assistant Professor
- G. Skogstad, B.A., M.A. (Alberta), Ph.D. (British Columbia), Professor
- S. Solomon, B.A. (McGill), M.A., Ph.D. (Columbia), Professor Emerita
- J. Teichman, B.A., M.A., Ph.D. (Toronto), FRSC, Professor
- P. Triadafilopoulos, B.A. (Toronto), M.A., (Brock), Ph.D. (New School NY), Associate Professor
- L. Way, B.A. (Harvard), M.A., Ph.D. (UC Berkeley), Associate Professor

Chair: Grace Skogstad
Program Advisor: Benjamin Pottruff Email: pol-advisor@utsc.utoronto.ca

Political Science is the study of enduring issues of power and authority, citizenship and governance, justice and legitimacy, and patterns of conflict and co-operation that arise around these issues from ancient to modern times. Political Science is divided into the following areas of focus: Canadian Politics, Comparative Politics (Developing and Developed Countries), International Relations, Political Theory, and Public Policy (see course chart below). In the area of Canadian Politics, students learn about the political-institutional foundations, political processes and public policies of Canada. Courses in comparative politics deal with the problems of political change and development in areas such as Asia, Europe, Latin America, and the Middle East. Political participation and mobilization, transitions to democracy and ethnic and religious conflict are some of the themes dealt with in comparative politics courses. International relations is devoted to studying the foreign policies of particular nation-states and the patterns of conflict and co-operation among states. Political theory explores the ideas, such as justice and legitimacy, that are fundamental to political thought and practice, giving special attention to reading and interpreting the classic expositions of politics from ancient Greek philosophers to post-modern social theorists. Public Policy examines the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

Guidelines for 1st year course selection

Students who intend to complete the Political Science or Public Policy programs should include the following in their 1st year course selection:
- Political Science: One full credit at the A-level in Political Science.
- Public Policy: One full credit at the A or B level in Anthropology, City Studies, Geography, International Development Studies, Political Science or Sociology; at least 0.5 full credits at the A-level in Political Science is recommended.

Political Science Areas of Focus, Part 1

* indicates a course can be applied to more than one field

<table>
<thead>
<tr>
<th>International Relations</th>
<th>Political Theory</th>
<th>Public Policy</th>
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<td>Political Science Areas of Focus, Part 2</td>
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<tr>
<th>Canadian Government and Politics</th>
<th>Comparative Politics</th>
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<tr>
<td>POLB50Y3 Canadian Government and Politics</td>
<td>POLB90H3 Comparative Development in International Perspective</td>
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<tr>
<td>POLC21H3 Voting and Elections*</td>
<td>POLB91H3 Comparative Development in Political Perspective</td>
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<td>POLC32H3 The Canadian Judicial System</td>
<td>POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe</td>
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<td>POLC53H3 Canadian Environmental Policy*</td>
<td>POLC16H3 Chinese Politics</td>
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<tr>
<td>POLC54H3 Intergovernmental Relations in Canada*</td>
<td>POLC21H3 Voting and Elections*</td>
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<td>POLC57H3 Intergovernmental Relations and Public Policy*</td>
<td>POLC22H3 Ethnic Conflict and Democratization in Europe After the Cold War</td>
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<td>POLC58H3 The Politics of National Identity and Diversity*</td>
<td>PPGC66H3 Public Policy Making*</td>
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<td>PPGC67H3 Public Policy in Canada*</td>
<td>POLC83H3 Applications of American Foreign Policy*</td>
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<td>POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms*</td>
<td>POLC90H3 Development Studies: Political and Historical Perspectives</td>
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<td>POLD50H3 Political Interests, Political Identity, and Public Policy*</td>
<td>POLC91H3 Latin America: Dictatorship and Democracy</td>
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<td>POLD51H3 Topics in Canadian and Comparative Politics*</td>
<td>POLC92H3 The American Political Process</td>
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<td>POLD52H3 Immigration and Canadian Political Development*</td>
<td>POLC93H3 Public Policies in the United States*</td>
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<td>POLD53H3 Political Disagreement in Canada</td>
<td>POLC94H3 Globalization, Gender and Development</td>
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<tr>
<td>POLB80H3 Introduction to International Relations I</td>
<td>POLC94H3 Globalization, Gender and Development</td>
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<tr>
<td>POLB81H3 Introduction to International Relations II</td>
<td>POLC94H3 Globalization, Gender and Development</td>
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<td>POLC09H3 International Security: Conflict, Crisis and War</td>
<td>POLC96H3 State Formation and Authoritarianism in the Middle East</td>
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<td>POLC38H3 International Law</td>
<td>POLC97H3 Protest Politics in the Middle East</td>
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<td>POLC39H3 Applications of American Foreign Policy*</td>
<td>POLC99H3 Latin America: The Politics of the Dispossessed</td>
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<td>POLC87H3 International Cooperation and Institutions</td>
<td>PPGD66H3 Comparative Public Policy*</td>
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<td>POLC88H3 The New International Agenda</td>
<td>POLD67H3 The Limits of Rationality*</td>
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<tr>
<td>POLC90H3 International Political Economy of Finance</td>
<td>POLD90H3 Public Policy and Human Development in the Global South*</td>
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<td>POLD09H3 International Relations of Ethnic Conflict</td>
<td>POLD91H3 Survival and Demise of Dictatorships</td>
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<td>POLD87H3 Rational Choice and International Cooperation</td>
<td>POLD94H3 Selected Topics on Developing Areas</td>
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<td>POLD89H3 Global Environmental Politics</td>
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Political Science Programs

SPECIALIST PROGRAM IN POLITICAL SCIENCE (ARTS)

Program Requirements
Students must complete at least 12.0 full credits in Political Science including:

1. Introduction to Political Science (1.0 credit):
POLA01H3 Critical Issues in Politics I
POLA02H3 Critical Issues in Politics II

2. Political Theory (1.0 credit):
POLB72H3 Introduction to Political Theory
0.5 credit from among the courses listed in the Political Theory area of focus

3. Canadian Politics (1.0 credit):
POLB50Y3 Canadian Government and Politics

4. At least four of the following (2.0 credits):
POLB80H3 Introduction to International Relations I
POLB81H3 Introduction to International Relations II
POLB90H3 Comparative Development in International Perspective
POLB91H3 Comparative Development in Political Perspective
POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe

5. Methods (1.0 credit):
[STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
POLC78H3 Political Analysis I

6. Applications (5.0 credits):
5.0 credits in POL or PPG courses at the C- and/or D-level

7. Advanced Applications (1.0 credit)
At least 1.0 credit in POL or PPG courses at the D-level

MAJOR PROGRAM IN POLITICAL SCIENCE (ARTS)

Program Requirements
Students must complete at least 8.0 credits in Political Science as follows:

1. Introduction to Political Science (1.0 credit):
POLA01H3 Critical Issues in Politics I
POLA02H3 Critical Issues in Politics II

2. Political Theory (1.0 credit):
POLB72H3 Introduction to Political Theory
0.5 credit from among the courses listed in the Political Theory area of focus

3. Canadian Politics (1.0 credit):
POLB50Y3 Canadian Government and Politics
4. **At least two of the following (1.0 credit):**
   - POLB80H3 Introduction to International Relations I
   - POLB81H3 Introduction to International Relations II
   - POLB90H3 Comparative Development in International Perspective
   - POLB91H3 Comparative Development in Political Perspective
   - POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe

5. **Methods (1.0 credit):**
   - [STAB23H3 Introduction to Statistics for the Social Sciences or equivalent]
   - POLC78H3 Political Analysis I

6. **Applications (2.5 credits):**
   - 2.5 credits in POL or PPG courses of which at least 2.0 must be at the C- and/or D-level

7. **Advanced Applications (0.5 credit)**
   - At least 0.5 credit in POL or PPG courses at the D-level

**MINOR PROGRAM IN POLITICAL SCIENCE (ARTS)**

**Program Requirements**

The Program requires the completion of at least 4.0 credits, including at least 2.0 credits at the C- or D-level. The program may be completed in one of two ways:

1. At least 4.0 credits above the A-level in any single Area of Focus; OR
2. 2.0 credits each from a combination of any two Area(s) of Focus

**NOTE Regarding the Area(s) of Focus:** Please refer to the tables above for courses in each Area. The Area(s) of Focus are:
   - Canadian Government and Politics
   - Political Theory
   - International Relations
   - Comparative Politics
   - Public Policy

**MINOR PROGRAM IN PUBLIC LAW (ARTS)**

The Minor in Public Law examines how the legal system, of which the constitutional order and judiciary are integral parts, governs the relationship both among constituent units of the state and between citizens and the state. It also examines the obligations that states have to one another via international law. Courses in the program address the normative foundations of principles of justice and human rights; the role of constitutions and courts in safeguarding the rule of law, protecting civil liberties, and curbing state power; the constraints to state sovereignty posed by international law and international courts; and the implications of the legal order for democratic and legitimate policy-making.

**Program Requirements**

Students must complete 4.0 credits, of which at least 1.0 credit must be at the C- and/or D-level.

1. **Core Courses (2.5 credits):**
   - POLB30H3 Law, Justice and Rights
   - POLB50Y3 Canadian Government and Politics
   - POLC32H3 The Canadian Judicial System
   - POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms

2. **Public Law Electives (1.0 credit):**
   - POLC36H3 Law and Public Policy
   - POLC38H3 International Law
   - POLC39H3 Comparative Legal Systems
   - POLD42H3 Advanced Topics in Public Law
   - POLD45H3 Constitutionalism

3. **Additional Elective (0.5 credit)**
   - An additional 0.5 credit from requirement 2 above or an appropriate course from another discipline, including at the UTSC, UTM and St. George campuses, as approved by the Public Law Program Advisor.
**Political Science Courses**

**POLA01H3 Critical Issues in Politics I**
An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will be introduced to and practice techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.
Exclusion: POL101Y, POL115H, POL112H, POL113H, POL114H
Breadth Requirement: Social & Behavioural Sciences
NOTE: POLA01H3 and POLA02H3 are not sequential courses and can be taken out of order or concurrently.

**POLA02H3 Critical Issues in Politics II**
An introduction to crucial political issues of the day (e.g. globalization, migration, political violence, corruption, democracy, global justice, climate change, human rights, revolution, terrorism) and key concepts in Political Science. Students will develop techniques of critical reading and analytic essay writing. Topics will vary by semester and professor.
Exclusion: POL101Y, POL115H, POL112H, POL113H, POL114H
Breadth Requirement: Social & Behavioural Sciences
NOTE: POLA01H3 and POLA02H3 are not sequential courses and can be taken out of order or concurrently.

**POLB30H3 Law, Justice and Rights**
This is a lecture course that helps students understand the theoretical justifications for the rule of law. We will study different arguments about the source and limitations of law: natural law, legal positivism, normative jurisprudence and critical theories. The course will also examine some key court cases in order to explore the connection between theory and practice. This is the foundation course for the Minor program in Public Law.
Area of Focus: Political Theory
Prerequisite: Any 4.0 credits
Exclusion: PHLB11H3 (students who have taken PHLB11H3 prior to POLB30H3 may count PHLB11H3 in place of POLB30H3 in the Minor in Public Law)
Recommended Preparation: 0.5 credit in Political Science
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students enrolled in the Minor program in Public Law. Additional students will be admitted as space permits.

**POLB50Y3 Canadian Government and Politics**
This course examines the institutional foundations and principles of Canadian government, and the social, cultural, and historical factors that shape its politics. Topics covered are the Canadian constitution, the executive, parliament, the public service, the federal system, the Charter of Rights and Freedoms, the courts, political parties, the electoral system, interest groups, social movements, Quebec nationalism, and aboriginal self-determination.
Area of Focus: Canadian Government and Politics
Prerequisite: Any 4.0 credits.
Exclusion: (POLB50H3), (POLB52H3), POL214Y, POL224Y
Breadth Requirement: Social & Behavioural Sciences

**POLB72H3 Introduction to Political Theory**
This course presents a general introduction to political theory and investigates central concepts in political theory, such as liberty, equality, democracy, and the state. Course readings will include classic texts such as Plato, Aristotle, Hobbes, Rousseau, and Marx, as well as contemporary readings.
Area of Focus: Political Theory
Prerequisite: Any 4.0 credits
Exclusion: PHLB17H3
Breadth Requirement: History, Philosophy & Cultural Studies

**POLB80H3 Introduction to International Relations I**
This course examines different approaches to international relations, the characteristics of the international system, and the factors that motivate foreign policies.
Area of Focus: International Relations
Prerequisite: Any 4.0 credits
Exclusion: POL208Y
Breadth Requirement: Social & Behavioural Sciences

**POLB81H3 Introduction to International Relations II**
This course examines how the global system is organized and how issues of international concern like conflict, human rights, the environment, trade, and finance are governed.
Area of Focus: International Relations
Prerequisite: POLB80H3
Note: It is strongly recommended that students take POLB80H3 and POLB81H3 in consecutive sessions.
Exclusion: POL208Y
Breadth Requirement: Social & Behavioural Sciences

**POLB90H3 Comparative Development in International Perspective**
This course examines the historical and current impact of the international order on the development prospects and politics of less developed countries. Topics include colonial conquest, multi-national investment, the debt crisis and globalization. The course focuses on the effects of these international factors on domestic power structures, the urban and rural poor, and the environment.
Area of Focus: Comparative Politics
Prerequisite: Any 4.0 credits
Exclusion: POL201Y
Breadth Requirement: Social & Behavioural Sciences

**POLB91H3 Comparative Development in Political Perspective**
This course examines the role of politics and the state in the processes of development in less developed countries. Topics include the role of the military and bureaucracy, the relationship between the state and the economy, and the role of religion and ethnicity in politics.
Area of Focus: Comparative Politics
Prerequisite: POLB90H3
Note: It is strongly recommended that students take POLB90H3 and POLB91H3 in consecutive sessions.
Exclusion: POL201Y
Breadth Requirement: Social & Behavioural Sciences

**POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism in Modern Europe**
This course explores the origins of modern political institutions in Europe through an examination of revolutions, democracy, and authoritarianism in Europe since 1789. Specific case studies include the French Revolution, democratization in Britain and Spain, the Russian Revolution and the rise of the Nazis in Germany.
Area of Focus: Comparative Politics
Prerequisite: Any 4.0 credits
Breadth Requirement: Social & Behavioural Sciences
POLC09H3 International Security: Conflict, Crisis and War
This course explores the causes and correlates of international crises, conflicts, and wars. Using International Relations theory, it examines why conflict occurs in some cases but not others. The course examines both historical and contemporary cases of inter-state conflict and covers conventional, nuclear, and non-traditional warfare.
Area of Focus: International Relations
Prerequisite: POLB80H3 and POLB81H3
Breadth Requirement: Social & Behavioural Sciences

POLC11H3 Applied Statistics for Politics and Public Policy
In this course, students learn to apply data analysis techniques to examples drawn from political science and public policy. Students will learn to complete original analyses using quantitative techniques commonly employed by political scientists to study public opinion and government policies. Rather than stressing mathematical concepts, the emphasis of the course will be on the application and interpretation of the data as students learn to communicate their results through papers and/or presentations.
Prerequisite: STAT23H3 or equivalent
Breadth Requirement: Quantitative Reasoning

POLC16H3 Chinese Politics
This course will cover Chinese politics and society from 1949 to the present, with an emphasis on the period since 1989. A central theme will be the tensions, challenges, and debates that drive decision-making, policy implementation, and social reactions in contemporary China.
Area of Focus: Comparative Politics
Prerequisite: POLB90H3 or POLB91H3
Exclusion: JPA331Y, JMC301Y
Recommended Preparation: Some coursework on Chinese history, language, politics, society, or culture.
Breadth Requirement: Social & Behavioural Sciences

POLC21H3 Voting and Elections
Why do some citizens vote when others do not? What motivates voters? This course reviews theories of voting behaviour, the social and psychological bases of such behaviour, and how candidate and party campaigns influence the vote. By applying quantitative methods introduced in STAB23H3 or other courses on statistical methods, students will complete assignments examining voter behaviour in recent Canadian and/or foreign elections using survey data and election returns.
Areas of Focus: Canadian Government and Politics; Comparative Politics
Prerequisite: [STAB23H3 or equivalent] or POL242Y
Exclusion: POL314H, POL314Y
Breadth Requirement: Social & Behavioural Sciences

POLC22H3 Ethnic Conflict and Democratization in Europe After the Cold War
This course explores post-Cold War politics in Europe through an examination of democratization and ethnic conflict since 1989 - focusing in particular on the role of the European Union in shaping events in Eastern Europe and the former Soviet Union. The first part of the course will cover theories of democratization, ethnic conflict as well as the rise of the European Union while the second part of the course focuses on specific cases, including democratization and conflict in the Balkans and Ukraine.
Area of Focus: Comparative Politics
Prerequisite: Any 8.0 credits
Exclusion: POLB93H3
Breadth Requirement: Social & Behavioural Sciences

POLC32H3 The Canadian Judicial System
This course explores the structure, role and key issues associated with the Canadian judicial system. The first section provides the key context and history associated with Canada’s court system. The second section discusses the role the courts have played in the evolution of the Canadian constitution and politics—with a particular focus on the Supreme Court of Canada. The final section analyzes some of the key debates and issues related to the courts in Canada, including their democratic nature, function in establishing public policy and protection of civil liberties.
Area of Focus: Canadian Government and Politics
Prerequisite: POLB50Y3
Recommended Preparation: POLB30H3
Breadth Requirement: Social & Behavioural Sciences

POLC36H3 Law and Public Policy
This course examines how different types of legal frameworks affect processes and outcomes of policy-making. It contrasts policy-making in Westminster parliamentary systems and separation of powers systems; unitary versus multi-level or federal systems; and systems with and without constitutional bills of rights.
Area of Focus: Public Policy
Prerequisite: POLB50Y3
Recommended Preparation: (POLC66H3) or PPGC66H3
Breadth Requirement: Social & Behavioural Sciences

POLC37H3 Global Justice
This course examines theoretical debates about the extent of moral and political obligations to non-citizens. Topics include human rights, immigration, global poverty, development, terrorism, and just war.
Area of Focus: Political Theory
Prerequisite: (POLB70H3) and (POLB71H3) or POLB72H3 or [1.0 credit at the B-level in IDS courses]
Exclusion: (PHLB08H3)
Breadth Requirement: History, Philosophy & Cultural Studies

POLC38H3 International Law
This course introduces students to the foundations of international law, its sources, its rationale, and challenges to its effectiveness and implementation. Areas of international law discussed include the conduct of war, trade, and diplomacy, as well as the protection of human rights and the environment.
Area of Focus: International Relations
Prerequisite: POLB30H3 or POLB80H3
Exclusion: POL340Y
Breadth Requirement: Social & Behavioural Sciences

POLC39H3 Comparative Legal Systems
This course explores some of the key aspects and issues of public law in modern, democratic systems of government from a comparative perspective. It does this by reviewing and applying theory and empirical analysis to a number of cases to explore five key issues: the institutional separation of power, the structure of the judiciary, the mechanisms (or lack thereof) to distribute power and resources between groups/territories, the mechanisms (or lack thereof) to protect individual and group rights, and how/if the constitutional order can be changed/amended. Cases considered will include: Canada, UK, Spain, Germany, Australia, America, India and South Africa.
Area of Focus: Comparative Politics
Prerequisite: POLB30H3
Recommended Preparation: POLB92H3 or (POLB93H3)
Breadth Requirement: Social & Behavioural Sciences
PLOC40H3 Current Topics in Politics
Topics and Area of Focus will vary depending on the instructor.
Prerequisite: One B-level full credit in Political Science
Breadth Requirement: Social & Behavioural Sciences

PLOC42H3 Topics in Comparative Politics
Topics will vary depending on the regional interests and expertise of the Instructor.
Area of Focus: Comparative Politics
Prerequisite: One B-level full credit in Political Science
Breadth Requirement: Social & Behavioural Sciences

PLOC53H3 Canadian Environmental Policy
This course examines the ideas and success of the environmental movement in Canada. The course focuses on how environmental policy in Canada is shaped by the ideas of environmentalists, economic and political interests, public opinion, and Canada's political-institutional framework. Combined lecture-seminar format.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: [POLB50Y3 or equivalent] or ESTB01H3 or [1.5 credits at the B-level in CIT courses]
Breadth Requirement: Social & Behavioural Sciences

PLOC54H3 Intergovernmental Relations in Canada
This course examines relations between provincial and federal governments in Canada, and how they have been shaped by the nature of Canada's society and economy, judicial review, constitutional amendment, and regionalization and globalization. The legitimacy and performance of the federal system are appraised. Lecture-seminar format.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: POLB50Y3 or equivalent
Exclusion: POL316Y
Breadth Requirement: Social & Behavioural Sciences

PLOC55H3 Political Strategy
This course focuses on analyzing and influencing individual and collective choices of political actors to understand effective strategies for bringing about policy changes. We will draw on the psychology of persuasion and decision-making, as well as literature on political decision-making and institutions, emphasizing contemporary issues. During election years in North America, special attention will be paid to campaign strategy. There may be a service-learning requirement.
Area of Focus: Public Policy
Prerequisite: At least 4.0 credits in POL courses
Breadth Requirement: Social & Behavioural Sciences

PLOC56H3 The Constitution of Canada and the Charter of Rights and Freedoms
This course will investigate the development of Canadian constitutional law under the Constitution Act of 1982 and the Charter of Rights and Freedoms. Specific topics include criminal rights, freedom of expression, freedom of religion, equality rights, and aboriginal rights.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: [POLB50Y3 or equivalent] or POLB30H3
Exclusion: POL337Y
Recommended Preparation: PLOC32H3
Breadth Requirement: Social & Behavioural Sciences

PLOC57H3 Intergovernmental Relations and Public Policy
This course examines intergovernmental relations in various areas of public policy and their effects on policy outcomes. It evaluates how federalism affects the capacity of Canadians to secure desirable social, economic, environmental and trade policies. Lecture-seminar format.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: [POLB50Y3 or equivalent] and PLOC54H3
Exclusion: POL316Y
Breadth Requirement: Social & Behavioural Sciences

PLOC58H3 The Politics of National Identity and Diversity
This course explores the foundational concepts of nation and nationalism in Canadian and comparative politics, and the related issues associated with diversity. The first section looks at the theories related to nationalism and national identity, while the second applies these to better understand such pressing issues as minorities, multiculturalism, conflict and globalization.
Areas of Focus: Canadian Government and Politics; Comparative Politics
Prerequisite: POLB92H3 or POLB50Y3
Breadth Requirement: Social & Behavioural Sciences

PLOC59H3 Modern Political Theory
This course is a study of the major political philosophers of the nineteenth century, including Hegel, Marx, J.S. Mill and Nietzsche.
Area of Focus: Political Theory
Prerequisite: [(POLB70H3) and (POLB71H3)] or POLB72H3
Exclusion: POL320Y
Breadth Requirement: History, Philosophy & Cultural Studies
POLC74H3 Contemporary Political Thought
This course is a study of the major political philosophers of the twentieth century. The theorists covered will vary from year to year.
Area of Focus: Political Theory
Prerequisite: ([POLB70H3] and [POLB71H3]) or POLB72H3
Exclusion: POL320Y
Breadth Requirement: History, Philosophy & Cultural Studies

POLC78H3 Political Analysis I
This course examines the principles of research design and methods of analysis employed by researchers in political science. Students will learn to distinguish between adequate and inadequate use of evidence and between warranted and unwarranted conclusions.
Prerequisite: 8.0 credits including 1.0 credit in POL courses
Breadth Requirement: Social & Behavioural Sciences

POLC80H3 International Relations of Africa
This course introduces students to the International Relations of Africa. This course applies the big questions in IR theory to a highly understudied region. The first half of the course focuses on security and politics, while the latter half pays heed to poverty, economic development, and multilateral institutions.
Area of Focus: International Relations
Prerequisite: POLB80H3 and POLB81H3
Breadth Requirement: Social & Behavioural Sciences

POLC81H3 International Cooperation and Institutions
This course explores the possibilities and limits for international cooperation in different areas and an examination of how institutions and the distribution of power shape bargained outcomes.
Area of Focus: International Relations
Prerequisite: POLB80H3 & POLB81H3
Breadth Requirement: Social & Behavioural Sciences

POLC87H3 Applications of American Foreign Policy
This course examines the foreign policy of the United States by analyzing its context and application to a specific region, regions or contemporary problems in the world.
Areas of Focus: International Relations; Public Policy; Comparative Politics
Prerequisite: Any 4.0 credits
Breadth Requirement: Social & Behavioural Sciences

POLC88H3 International Cooperation and Institutions
This course explores the possibilities and limits for international cooperation in different areas and an examination of how institutions and the distribution of power shape bargained outcomes.
Area of Focus: International Relations
Prerequisite: POLB80H3 & POLB81H3
Breadth Requirement: Social & Behavioural Sciences

POLC90H3 The New International Agenda
Traditional International Relations Theory has concentrated on relations between states, either failing to discuss, or missing the complexities of important issues such as terrorism, the role of women, proliferation, globalization of the world economy, and many others. This course serves as an introduction to these issues - and how international relations theory is adapting in order to cover them.
Area of Focus: International Relations
Prerequisite: [POLB80H3 & POLB81H3] or equivalent
Breadth Requirement: Social & Behavioural Sciences

POLC91H3 Development Studies: Political and Historical Perspectives
This course provides students with a more advanced examination of issues in development studies, including some of the mainstream theoretical approaches to development studies and a critical examination of development practice in historical perspective. Seminar format.
Area of Focus: Comparative Politics
Prerequisite: POLB90H3 & POLB91H3
Breadth Requirement: Social & Behavioural Sciences

POLC92H3 Latin America: Dictatorship and Democracy
This course explores the origins of Latin America's cycles of brutal dictatorship and democratic rule. It examines critically the assumption that Latin American countries have made the transition to democratic government.
Area of Focus: Comparative Politics
Prerequisite: [POLB90H3 & POLB91H3] or equivalent
Exclusion: POL305Y
Breadth Requirement: Social & Behavioural Sciences

POLC93H3 Protest Politics in the Middle East
This course examines various forms of protest politics in the contemporary Middle East. The course begins by introducing important theoretical debates concerning collective action in the region - focusing on such concepts as citizenship, the public sphere, civil society, and social movements. The second part of the course examines case studies of social action - examining the roles played by crucial actors such as labour, the rising Islamist middle classes/bourgeoisie, the region's various ethnic and religious minority groups, and women who are entering into the public sphere in unprecedented numbers. The course concludes by examining various forms of collective and non-collective action in the region from Islamist social movements to everyday forms of
resistance.
Area of Focus: Comparative Politics
Prerequisite: POLB90H3 & POLB91H3
Breadth Requirement: Social & Behavioural Sciences

POLD01H3 Advanced Topics in Politics
Topics and Area of Focus will vary depending on the instructor.
Prerequisite: 1.5 credits at the C-level in POL courses
Exclusion: (POLC41H3)
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD42H3 Advanced Topics in Public Law
Topics and area of focus will vary depending on the instructor, and may include global perspectives on social and economic rights, judicial and constitutional politics in diverse states and human rights law in Canada.
Prerequisite: 1.5 credits from the following [POLC32H3, POLC36H3, POLC39H3, POLC68H3]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLC98H3 International Political Economy of Finance
The course explains why financial markets exist, and their evolution, by looking at the agents, actors and institutions which generate demand for them. We also consider the consequences of increasingly integrated markets, the causes of systemic financial crises, as well as the implications and feasibility of regulation.
Area of Focus: International Relations
Prerequisite: POLB80H3 & POLB81H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

POLD02Y3 Senior Research Seminar in Political Science
This course provides an opportunity to design and carry out individual or small-group research on a political topic. After class readings on the topic under study, research methods and design, and research ethics, students enter “the field” in Toronto. The seminar provides a series of opportunities to present and discuss their unfolding research.
Prerequisite: 1.5 credits at the C-level in POL courses
Enrolment Limits: 15

POLD09H3 International Relations of Ethnic Conflict
This course explores the internationalization of ethnic conflict and the international drivers of civil war. It covers diaspora politics, contagion and demonstration effects, regional security complexes, separatism and irredentism, and the use of sanctions and international interventions. The class involves discussions, problem-solving exercises, and teamwork.
Area of Focus: International Relations
Prerequisite: [POLB80H3 and POLB81H3] and [1.5 credits at the C-level in POL or IDS courses]
Exclusion: POL466H
Recommended Preparation: POLC09H3
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLC99H3 Latin America: The Politics of the Dispossessed
This course explores the way the poor and oppressed have organized and fought for their rights. Special attention is given to the way in which globalization has affected popular organizing, including its impact on insurgent movements such as the Zapatistas.
Area of Focus: Comparative Politics
Prerequisite: [POLB90H3 & POLB91H3] or equivalent
Exclusion: POL305Y
Breadth Requirement: Social & Behavioural Sciences

POLC09H3 Research Seminar in Political Science
This course provides an opportunity to design and carry out individual or small-group research on a political topic. After class readings on the topic under study, research methods and design, and research ethics, students enter “the field” in Toronto. The seminar provides a series of opportunities to present and discuss their unfolding research.
Prerequisite: 1.5 credits at the C-level in POL courses
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD50H3 Political Interests, Political Identity, and Public Policy
This course examines the interrelationship between organized interests, social movements and the state in the formulation and implementation of public policy in Canada and selected other countries.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: [POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL or PPG courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD42H3 Constitutionalism
This course studies the theory of constitutionalism through a detailed study of its major idioms such as the rule of law, the separation of powers, sovereignty, rights, and limited government.
Area of Focus: Political Theory
Prerequisite: [[[POLB70H3] and (POLB71H3)] or POLB72H3 or POLB30H3] and [1.5 credits at the C-level in POL courses]
Enrolment Limits: 25
Breadth Requirement: History, Philosophy & Cultural Studies

POLD51H3 Topics in Canadian and Comparative Politics
This seminar course explores selected issues of Canadian politics from a comparative perspective. The topics in this course vary depending on the instructor.
Areas of Focus: Canadian Government and Politics; Comparative Politics
Prerequisite: [POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD52H3 Immigration and Canadian Political Development
Immigration has played a central role in Canada's development. This course explores how policies aimed at regulating migration have both reflected and helped construct conceptions of Canadian national identity. We will pay particular attention to the politics of immigration policymaking, focusing on the role of the state and social actors.
Areas of Focus: Canadian Government and Politics; Public Policy
Prerequisite: [[[POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL or PPG courses] or [15.0 credits including SOCB60H3]]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
POLD53H3 Political Disagreement in Canada

Why do Canadians disagree in their opinions about abortion, same-sex marriage, crime and punishment, welfare, taxes, immigration, the environment, religion, and many other subjects? This course examines the major social scientific theories of political disagreement and applies these theories to an analysis of political disagreement in Canada.

Area of Focus: Canadian Government and Politics
Prerequisite: [POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL courses]
Recommended Preparation: STAB23H3 or equivalent
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD59H3 Politics of Disability

An in-depth analysis of the place and rights of disabled persons in contemporary society. Course topics include historic, contemporary, and religious perspectives on persons with disabilities; the political organization of persons with disabilities; media presentation of persons with disabilities; and the role of legislatures and courts in the provision of rights of labour force equality and social service accessibility for persons with disabilities.

Area of Focus: Canadian Government and Politics
Prerequisite: 8.0 credits, of which at least 1.5 credits must be at the C- or D-level
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD67H3 The Limits of Rationality

This course critically examines the relationship between politics, rationality, and public policy-making. The first half of the course surveys dominant rational actor models, critiques of these approaches, and alternative perspectives. The second half of the course explores pathological policy outcomes, arrived at through otherwise rational procedures.

Areas of Focus: Comparative Politics; Political Theory; Public Policy
Prerequisite: [(POLB70H3) and (POLB71H3) or POLB72H3] or [POLB90H3 and POLB91H3] or PPGC66H3 and [1.0 additional credit at the C-level in POL or PPG courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD70H3 Topics in Political Theory

This seminar explores the ways in which political theory can deepen our understanding of contemporary political issues. Topics may include the following: cities and citizenship; multiculturism and religious pluralism; the legacies of colonialism; global justice; democratic theory; the nature of power.

Area of Focus: Political Theory
Prerequisite: [(POLB70H3) or (POLB71H3) or POLB72H3] and [1.5 credits at the C-level in POL courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD78H3 Advanced Political Analysis

This seminar course is intended for students interested in deepening their understanding of methodological issues that arise in the study of politics or advanced research techniques.

Prerequisite: POLC78H3 and [1.0 credit at the C-level in POL courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD87H3 Rational Choice and International Cooperation

This course is an introduction to rational choice theories with applications to the international realm. A main goal is to introduce analytical constructs frequently used in the political science and political economy literature to understand strategic interaction among states.

Area of Focus: International Relations
Prerequisite: POLB80H3 and POLB81H3 and [1.5 credits at the C-level in POL courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD89H3 Global Environmental Politics

Examines the challenges faced by humanity in dealing with global environmental problems and the politics of addressing them. Focuses on both the underlying factors that shape the politics of global environmental problems - such as scientific uncertainty, North-South conflict, and globalization - and explores attempts at the governance of specific environmental issues.

Area of Focus: International Relations
Prerequisite: [[POLB80H3 and POLB81H3] or ESTB01H3] and [2.0 credits at the C-level in any courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD90H3 Public Policy and Human Development in the Global South

While domestic and international political factors have discouraged pro human development public policies in much of the global south, there have been some important success stories. This course examines the economic and social policies most successful in contributing to human development and explores the reasons behind these rare cases of relatively successful human development.

Areas of Focus: Comparative Politics; Public Policy
Prerequisite: [1.0 credit from: IDSB01H3, IDSB04H3, POLB90H3, POLB91H3 and [2.0 credits at the C-level in any courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD92H3 Survival and Demise of Dictatorships

This course will provide an introduction to theories of why some dictatorships survive while others do not. We will explore theories rooted in regime type, resources, state capacity, parties, popular protest, and leadership. We will then examine the utility of these approaches through in-depth examinations of regime crises in Ethiopia, Iran, China, the USSR, and South Africa.

Area of Focus: Comparative Politics
Prerequisite: [1.0 credit from: POLB90H3, POLB91H3, POLB92H3, POLB93H3] and [2.0 credits at the C-level in any courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences

POLD94H3 Selected Topics on Developing Areas

Topics vary according to instructor.
Area of Focus: Comparative Politics
Prerequisite: POLB90H3 and [POLB91H3 or 0.5 credit at the B-level in IDS courses] and [2.0 credits at the C-level in any courses]
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
POLD95H3 Supervised Research
A research project under the supervision of a member of faculty that will result in the completion of a substantial report or paper acceptable as an undergraduate senior thesis. Students wishing to undertake a supervised research project in the Winter Session must register in POLD95H3 during the Fall Session. It is the student's responsibility to find a faculty member who is willing to supervise the project, and the student must obtain consent from the supervising instructor before registering for this course. During the Fall Session the student must prepare a short research proposal, and both the supervising faculty member and the Supervisor of Studies must approve the research proposal prior to the first day of classes for the Winter Session.
Prerequisite: Permission of the instructor

POLD98H3 Supervised Reading
Advanced reading in special topics. This course is meant only for those students who, having completed the available basic courses in a particular field of Political Science, wish to pursue further intensive study on a relevant topic of special interest. Students are advised that they must obtain consent from the supervising instructor before registering for this course.
Prerequisite: Permission of the instructor.
Exclusion: POL495Y
Psychology

Faculty List

- M. Bagby, B.A. (Tennessee), M.A. (Radford), Ph.D., C. Psych (York), Professor
- G.B. Biederman, B.Sc. (CUNY), Ph.D. (NYU), Professor Emeritus
- D.A. Bors, B.A. (Florida), M.A. (Regina), Ph.D. (Toronto), Associate Professor, Teaching Stream, Emeritus
- J.S. Cant, B.A., M.Sc., Ph.D. (Western), Assistant Professor
- G.S. Cree, B.A., M.A., Ph.D. (Western), Associate Professor
- G.C. Cupchik, B.A. (Michigan), M.A., Ph.D. (Wisconsin), Professor
- J. Dere, B.A. (McGill), M.Sc. (McGill), Ph.D. (Concordia), Assistant Professor, Teaching Stream
- K.K. Dion, B.A. (Wellesley), Ph.D. (Minnesota), Professor
- S. Erb, B.Sc. (Wilfrid Laurier), M.A., Ph.D. (Concordia), Associate Professor
- J.E. Foley, B.A., Ph.D. (Sydney), Professor Emerita
- B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), Professor Emeritus
- M.A. Fournier, B.A., Ph.D. (McGill), Associate Professor
- D. W. Haley, M.A. (San Francisco), Ph.D. (Albuquerque), Associate Professor
- C. Hutcherson, B.A. (Harvard), Ph.D. (Stanford), Assistant Professor
- Y. Inbar, B.A. (Berkeley), Ph.D. (Cornell), Assistant Professor
- M. Inzlicht, B.Sc. (McGill), M.Sc., Ph.D. (Brown), Professor
- R. Ito, B.A. (Oxford), Ph.D. (Cambridge), Assistant Professor
- S. Joordens, B.A. (New Brunswick), M.A., Ph.D. (Waterloo), Professor
- J.M. Kennedy, B.Sc., M.Sc. (Belfast), Ph.D. (Cornell), University Professor Emeritus
- A. Kukla, A.B., M.A., Ph.D. (UCLA), Professor Emeritus
- J.C. LeBoutillier, B.Sc., M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- A.C.H. Lee B.A. (Oxford), Ph.D. (Cambridge), Assistant Professor
- A. Nestor, B.A. (Bucharest), M.Sc. (New Bulgarian), Ph.D. (Brown), Assistant Professor
- M. Niemeier, M.A. (Hamburg), Ph.D. (Tubingen), Associate Professor
- T.L. Petit, B.Sc., M.A. (Louisiana), Ph.D. (Florida), Professor Emeritus
- A.C. Ruocco, B.Sc. (York), M.Sc., Ph.D., C.Psych. (Drexel), Associate Professor
- M.A. Schmuckler, B.A. (SUNY-Binghamton), Ph.D. (Cornell), Professor
- Z. Segal, B.A. (McGill), M.A. (Queens), Ph.D. (Queens), Professor
- M.C. Smith, B.A. (Toronto), Ph.D. (MIT), Professor Emerita
- R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor
- S. Tran, B.A. (Oklahoma), M.S. (Texas A&M), Ph.D. (Minnesota), Associate Professor, Teaching Stream
- A.A. Uliaszek, B.A. (Penn State), M.A., Ph.D. (Northwestern), Assistant Professor
- K.K. Zakzanis, B.A., M.A., Ph.D., C.Psych. (York), Professor

Chair: G.S. Cree

Psychology - Associate Chair and Program Supervisor: Matthias Niemeier

Mental Health Studies and Co-op Programs - Associate Chair and Program Supervisor: Konstantine Zakzanis

Program Manager: Hanan Domloge
Undergraduate Advisor: Ainsley Lawson
Email: psychology-undergraduate@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Psychology is that branch of science which seeks to understand behaviour and mind. Why organisms - human and infrahuman - act as they do is one of the most compelling and longstanding questions in the history of human thought. Philosophers, artists, novelists, theologians and others have sought the answer through a variety of means. Psychology uses the methods of scientific enquiry to address the question.

The areas of interest encompassed by the discipline of psychology include: How humans learn, adapt, and remember; how they change over their lifetimes; how they are affected by the presence of others; how their behaviour relates to their physiological functions; how mental processes can exhibit pathologies and how these pathologies can be treated. Our course offerings in Psychology include all of these topics, covering how psychologists go about answering the important questions in each, and what we have learned about each.

The Specialist Program in Psychology focuses on normal thought, feelings and behaviour whereas the Specialist Program in Mental Health Studies focuses on abnormal psychological processes. The Specialist Program in Psychology is intended both for students with a strong interest in the science of psychology and for those who wish to pursue graduate work in psychology after the first degree. The Specialist in Mental Health Studies is intended for students with a strong interest in pathologies of the mind and in their treatment. Students considering graduate study should plan to include the PSYD98Y3 (thesis course) in their undergraduate Program.
Two co-operative programs are offered, the Specialist (Co-operative) Program in Psychology and the Specialist (Co-operative) Program in Mental Health Studies. Admission to these programs which involve practical work experience is limited.

The Major Program in Psychology and the Major Program in Mental Health Studies are designed to introduce students to the main areas within each of these related disciplines. The Minor Program in Psychology is designed for students who are interested in a less intensive exposure to the field. Often, students wish to concentrate their studies in two areas, in which case a double Major Program combining psychology with another discipline is ideal. Programs in Mental Health Studies and Psychology cannot, however, be combined.

Students particularly interested in the relation of brain to behaviour should consider the Neuroscience Programs described earlier in this Calendar.

**Admission to Psychology Programs**
The Specialist and Major programs in Psychology and Mental Health Studies have enrolment limits. Every year students will be admitted to the Specialist and Major Programs in Psychology and Mental Health Studies. Entry into these programs after first year can be gained as follows:

- Students may apply to the program after completing a minimum of 4.0 credits including 1 full credit in psychology.
- Admission will require a final grade of 70% or higher in each of PSYA01H3 and PSYA02H3 for admission to the Specialist programs and 60% or higher in each of PSYA01H3 and PSYA02H3 for the Major programs.
- Students in the Major who achieve a final grade of 70% or higher in each of two B-level psychology courses will be accepted for transfer into the Specialist program.

Application for admission will be made to the Registrar through ROSI, in April/May and July/August. Admission information for Co-op programs can be found under the relevant program descriptions below.

**Planning your Program in Psychology**
Students should be aware that the A, B, C, D course structure in Psychology dictates the sequence in which courses should be taken, but not the year of study in which a given course must be taken. That is, A, B, C, and D do not correspond to first, second, third and fourth year. For example, it is recommended that PSYB07H3 and PSYC08H3 be taken consecutively in the two terms of second year.

Courses in the Faculty of Arts and Science correspond to A-, B-, C- or D-level of study, with the exception of PSY450H1, PSY493H1, and PSY494H1, which will count at the C-level, not the D-level; all other 400-level courses count as D-level courses. A 300-level course, which is comparable to a C-level course, may not be used to satisfy a D-level program requirement, even if it is listed as an exclusion to a D-level course. Students are encouraged to plan carefully so that they will meet their educational objectives over the years of their degree. Discussions with the Undergraduate Advisor can be very valuable in this regard.

**Program Exclusion**
Programs in Mental Health Studies and Psychology cannot be combined.

**First-Year Students in Psychology**
PSYA01H3 & PSYA02H3 are recommended in first year for students intending to pursue a Specialist or Major Program in Psychology or Mental Health Studies.

**Courses in Neuroscience**
Students interested in including Neuroscience courses in their Psychology or Mental Health Studies Program should consult the Neuroscience section for details.

**Service Learning and Outreach (Previously known as Science Engagement)**
For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

**Combined Degree Programs, Specialist programs in Mental Health Studies, Honours Bachelor of Science/ Master of Social Work**
The Combined Degree Programs in Mental Health Studies (BSc) and MSW are ideal for students pursuing a career as a social worker. These accelerated programs provide a rich intellectual pathway for exceptional undergraduate students by providing access to social work research before the completion of the undergraduate degree, and offer students 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 (FIFSW) co-supervisor. The Combined Degree Programs allow well-qualified students to apply during their third year, and be considered, for admission to the FIFSW Master's program in Social Work.

**Combined Degree Programs options are:**
- Mental Health Studies (Specialist), Honours Bachelor of Science/ Master of Social Work
- Mental Health Studies (Specialist Co-op), Honours Bachelor of Science/ Master of Social Work

For more information, including Admission and Program requirements, see the Combined Degree Programs section of this Calendar.

**Psychology Programs**
SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

Program Requirements

The program requires completion of 12.5 credits as follows, including at least 4.0 credits at the C- or D-level, of which at least 1.0 must be at the D-level:

1. **PSYA01H3 Introductory Psychology: Part I**
   
   **and**
   
   **PSYA02H3 Introductory Psychology: Part II**
   
   (1.0 credit)

2. Statistical Methods (1.0 credit)

   a. **PSYB07H3 Data Analysis in Psychology**
   
   **and**
   
   b. [**PSYC08H3 Advanced Data Analysis in Psychology** or **PSYC09H3 Applied Multiple Regression in Psychology**]

3. Laboratory Methods (1.0 credit)

   a. **PSYB01H3 Psychological Research Laboratory**
   
   **and**
   
   b. **PSYC37H3 Psychological Assessment**

4. **PSYC02H3 Scientific Communication in Psychology**
   
   (0.5 credit)

5. **PSYC85H3 History of Psychology**

6. **PSYB30H3 Personality**

   **and**

   **PSYB32H3 Abnormal Psychology**
   
   (1.0 credit)

7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits):

   a. **Psycho-Social Grouping**
   
   **PSYB45H3 Behaviour Modification: Origins and Applications**
   
   **PSYC18H3 The Psychology of Emotion**
   
   **PSYC35H3 Advanced Personality Psychology**
   
   **PSYC36H3 Psychotherapy**
   
   **PSYC39H3 Psychology and the Law**

   b. **Psycho-Biological Grouping**
   
   **PSYB64H3 Physiological Psychology**
   
   **PSYB65H3 Human Brain & Behaviour**
   
   **PSYC31H3 Clinical Neuropsychology**
   
   **PSYC33H3 Neuropsychological Rehabilitation**
   
   **PSYC62H3 Drugs and the Brain**

8. Students are required to take 1.0 D-level credit, with at least 0.5 from the following list (1.0 credit)

   a. **PSYD30H3 Current topics in Personality Psychology**
   
   **PSYD32H3 Personality Disorders**
   
   **PSYD33H3 Current topics in Abnormal Psychology**
   
   **PSYD35H3 Clinical Psychopharmacology**

9. Additional credits in Psychology (1.5 credits)

10. Students must select 2.0 credits from the following courses:

    a. **HLTB17H3 Conceptual Models of Health**
    
    **HLTB40H3 Health Policy and Health Systems**
    
    **HLTC05H3 Society, Health and Illness**
    
    **HLTC22H3 Health, Aging, and the Life Cycle**
    
    **HLTC23H3 Issues in Child Health and Development**
    
    **HLTC42H3 Emerging Health Issues and Policy Needs**
    
    **IDSB04H3 Introduction to International/Global Health**
    
    **IDSC11H3 Issues in Global and International Health**
    
    **LINB20H3 Sociolinguistics**
    
    **PHLA11H3 Introduction to Ethics**
    
    **PHLB07H3 Ethics**
    
    **PHLB09H3 Biomedical Ethics**
    
    **PHLB81H3 Theories of Mind**
    
    **SOCB22H3 Sociology of Gender**
    
    **SOCB49H3 Sociology of Family**
SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

The Program combines academic studies in the field of mental health with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in mental health. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe and assist psychologists engaged in clinical practice, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings may provide the opportunity for clinical engagement under close supervision. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

Program Admission
Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Mental Health Studies, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Psychology, or vice-versa.

Program Requirements

Work Terms
The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including PSYB01H3, PSYB07H3, PSYB32H3, PSYB65H3, PSYC02H3, PSYC08H3, and PSYC32H3. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below, are to be taken before the first work term.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

Course Requirements
The program requires 12.5 credits as follows, including at least 4.0 credits at the C-level, of which at least 1.0 credit must be at the D-level:

1. PSYA01H3 Introductory Psychology: Part I
   and
   PSYA02H3 Introductory Psychology: Part II
   (1.0 credit)
2. Statistical Methods (1.0 credit)
   a. PSYB07H3 Data Analysis in Psychology*
      and
   b. [PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]*
3. Laboratory Methods (1.5 credits)
   a. PSYB01H3 Psychological Research Laboratory*
      and
   b. PSYC32H3 Clinical Neuropsychology Laboratory*
      and
   c. PSYC37H3 Psychological Assessment**
4. PSYC02H3 Scientific Communication in Psychology*
   (0.5 credit)
5. PSYC85H3 History of Psychology
6. PSYB30H3 Personality
   and
   PSYB32H3 Abnormal Psychology*
   (1.0 credit)
7. Students are required to take 2.0 credits from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 1.0 credit from the other grouping (3.0 credits):
**Psycho-Social Grouping**
- PSYB45H3 Behaviour Modification
- PSYC18H3 The Psychology of Emotion
- PSYC35H3 Advanced Personality Psychology
- PSYC36H3 Psychotherapy
- PSYC39H3 Psychology and the Law

**Psycho-Biological Grouping**
- PSYB64H3 Physiological Psychology
- PSYB65H3 Human Brain & Behaviour*
- PSYC33H3 Neuropsychological Rehabilitation**
- PSYC62H3 Drugs and the Brain

8. Students are required to take 1.0 D-level credit, with at least 0.5 credit from the following list:
   - PSYD30H3 Current topics in Personality Psychology
   - PSYD32H3 Personality Disorders
   - PSYD33H3 Current topics in Abnormal Psychology
   - PSYD35H3 Clinical Psychopharmacology

9. Additional credits in Psychology (1.0 credits)
   - Students must select 2.0 credits from the following courses:
     - HLTB17H3 Conceptual Models of Health
     - HLTB40H3 Health Policy and Health Systems
     - HLTCC05H3 Society, Health and Illness
     - HLTCC22H3 Health, Aging, and the Life Cycle
     - HLTCC23H3 Issues in Child Health and Development
     - HLTCC42H3 Emerging Health Issues and Policy Needs
     - IDSBO4H3 Introduction to International/Global Health
     - IDSC11H3 Issues in Global and International Health
     - LINB20H3 Sociolinguistics
     - PHLA11H3 Introduction to Ethics
     - PHLB07H3 Ethics
     - PHLB09H3 Biomedical Ethics
     - PHLB81H3 Theories of Mind
     - SOCB22H3 Sociology of Gender
     - SOCB49H3 Sociology of Family
     - SOCB50H3 Deviance and Normality I
     - (SOCB51H3) Deviance and Normality II

* These credits must be successfully completed before the first work term.
** These credits must be successfully completed before the second work term.

**SPECIALIST PROGRAM IN PSYCHOLOGY (SCIENCE)**

**Program Requirements**

The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at least 1.0 credit must be at the D-level:

1. PSYA01H3 Introductory Psychology: Part I
   and
   PSYA02H3 Introductory Psychology: Part II
   (1.0 credit)

2. Statistical Methods (1.0 credit)
   a. PSYB07H3 Data Analysis in Psychology
   and
   b. [PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]

3. Laboratory Methods (1.0 credit)
   a. PSYB01H3 Psychological Research Laboratory
   and
   b. 0.5 credit from among the following:
      - PSYC04H3 Brain Imaging Laboratory
      - PSYC05H3 Human Movement Laboratory
      - PSYC06H3 Psychophysiology Laboratory
      - PSYC11H3 Social Psychology Laboratory
      - PSYC26H3 Developmental Psychology Laboratory
PSYC58H3 Cognitive Psychology Laboratory
NROC63H3 Neuroscience Laboratory

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)
5. PSYC85H3 History of Psychology
6. Credits at the B-level and C-level (5.0 credits)
   Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group:
   
a. Social and Developmental (courses listed in the 10- and 20-series);
b. Perception, Cognition and Physiology (courses listed in the 50- and 60-series)
7. Credits at the D-level (1.0 credit)
   Students must take a 0.5 credit from each of the groupings listed below:
   
a. **Group One**
   PSYD11H3 Psychology of Interpersonal Relationships
   PSYD12H3 Social Psychology of the Self
   PSYD14H3 Psychology of Morality
   PSYD15H3 Current Topics in Social Psychology
   PSYD16H3 Critical Analysis in Social Psychology
   PSYD18H3 Psychology of Gender
   PSYD20H3 Current Topics in Developmental Psychology
   PSYD22H3 Socialization Processes
b. **Group Two**
   PSYD34H3 Human Intelligence
   PSYD50H3 Current Topics in Memory and Cognition
   PSYD51H3 Current Topics in Perception
   PSYD66H3 Current Topics in Human Brain and Behaviour
8. Additional credits in Psychology (2.5 credits)
   Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.5 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

**SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLOGY (SCIENCE)**

The Program combines academic studies in the field of psychology with practical work experience. The work experience provided by the program enables students to explore career opportunities relevant to their studies in psychology. Completion of the program does not, however, represent a professional qualification in psychology, which requires further study at the graduate level. Work settings may also provide students with the opportunity to observe psychologists interacting with other professionals, hence providing a broader and more informed basis for the selection of a post graduate program appropriate to the student's talents and interests. Some work settings will provide the opportunity for participation in basic or applied research. For information on admissions, fees, work terms and standing in the Program, please see the Co-operative Programs section of this Calendar.

**Program Admission**

*Prospective Applicants:* For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post secondary institution, see the Co-operative Programs section in this Calendar.

*Current U of T Scarborough students:* Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits including PSYA01H3 & PSYA02H3 plus a cumulative GPA of at least 2.75. Students who have completed 10.0 credits, or more, are not eligible to apply to the program. Students currently enrolled in the Specialist Co-op in Psychology, who have completed 10.0 credits, or more, are not eligible to transfer to the Specialist Co-op in Mental Health Studies, or vice-versa.

**Work Terms**

The program requires eight four month terms of study and two four month work terms over a four year period. To be eligible for their first work term, students must have completed at least 10.0 credits, including PSYB01H3, PSYB07H3, PSYC02H3 and PSYC08H3. Students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations, prior to their first work term. Certain other courses specified below the first work term is undertaken.

To be eligible for their second work term, students must have completed at least 12.5 credits, including certain courses specified below, and have received satisfactory evaluation for their performance and for their report on their first work term.

**Course Requirements**

The program requires the completion of 12.5 credits as specified for the Specialist Program in Psychology. The program provides a theoretical and methodological foundation for the study of psychological processes relevant to social behaviour, life-span development, perception, memory, language and thought. Students can apply for work term employment in settings such as survey research firms and
in government departments and other agencies involved in providing support to persons with disabilities, educational organizations, and research and development departments in the industry.

Program Requirements
The Program requires completion of 12.5 credits, including at least 4.0 credits at the C- or D-level, of which at 1.0 credit must be at the D-level:

1. PSYA01H3 Introductory Psychology: Part I  
   and  
   PSYA02H3 Introductory Psychology: Part II  
   (1.0 credit)

2. Statistical Methods (1.0 credit)
   a. PSYB07H3 Data Analysis in Psychology*
      and
   b. [PSYC08H3 Advanced Data Analysis in Psychology or PSYC09H3 Applied Multiple Regression in Psychology]*

3. Laboratory Methods (1.0 credit)
   a. PSYB01H3 Psychological Research Laboratory*
      and
   b. 0.5 credit from among the following:
      PSYC04H3 Brain Imaging Laboratory  
      PSYC05H3 Human Movement Laboratory  
      PSYC06H3 Psychophysiology Laboratory  
      PSYC11H3 Social Psychology Laboratory  
      PSYC26H3 Developmental Psychology Laboratory  
      PSYC58H3 Cognitive Psychology Laboratory  
      NROC63H3 Neuroscience Laboratory

4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)*

5. PSYC85H3 History of Psychology

6. Credits at the B-level and C-level (5.0 credits)
   Students are required to take 3.0 credits at the B-level or C-level from one of the two content groups listed below and 2.0 credits from the other group:
   a. Social and Developmental (courses listed in the 10- and 20-series);
   b. Perception, Cognition and Physiology (courses listed in the 50- and 60-series);

7. Credits at the D-level (1.0 credit)
   Students must take 0.5 credit from each of the groupings listed below:
   a. Group One
      PSYD11H3 Psychology of Interpersonal Relationships  
      PSYD12H3 Social Psychology of the Self  
      PSYD14H3 Psychology of Morality  
      PSYD15H3 Current Topics in Social Psychology  
      PSYD16H3 Critical Analysis in Social Psychology  
      PSYD18H3 Psychology of Gender  
      PSYD20H3 Current Topics in Developmental Psychology  
      PSYD22H3 Socialization Processes
   b. Group Two
      PSYD34H3 Human Intelligence  
      PSYD50H3 Current Topics in Memory and Cognition  
      PSYD51H3 Current Topics in Perception  
      PSYD66H3 Current Topics in Human Brain and Behaviour

8. Additional credits in Psychology (2.5 credits)
   Students must choose 2.5 further credits from any of the remaining courses in Psychology. In selecting the 2.0 credits, 1.0 credit must be at the C-level. Supervised study or thesis courses may be used to fulfill a maximum of 0.5 credit.

(*) These credits must be successfully completed before the first work term.
MAJOR PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

Program Requirements

The program requires 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:

1. PSYA01H3 Introductory Psychology: Part I
   and
   PSYA02H3 Introductory Psychology: Part II
   (1.0 credit)
2. STAB22H3 Statistics I
   or
   STAB23H3 Introduction to Statistics for the Social Sciences
   or
   PSYB07H3 Data Analysis in Psychology
   (0.5 credit)
3. Laboratory Methods (1.0 credit)
   [PSYB01H3 Psychological Research Laboratory or PSYB04H3 Foundations in Psychological Research]
   and
   PSYC37H3 Psychological Assessment
4. PSYB30H3 Personality
   and
   PSYB32H3 Abnormal Psychology
   (1.0 credit)
5. Students are required to take 1.0 credit from either the psycho-social grouping or the psycho-biological grouping listed below, as well as 0.5 credit from the other group (1.5 credits):

   a. Psycho-Social Grouping
      PSYB45H3 Behaviour Modification
      PSYC18H3 The Psychology of Emotion
      PSYC35H3 Advanced Personality Psychology
      PSYC36H3 Psychotherapy
      PSYC39H3 Psychology and the Law
   b. Psycho-Biological Grouping
      PSYB64H3 Physiological Psychology
      PSYB65H3 Human Brain & Behaviour
      PSYC31H3 Clinical Neuropsychology
      PSYC33H3 Neuropsychological Rehabilitation
      PSYC62H3 Drugs and the Brain

6. Credits at the D-level (0.5 credit)
7. Additional credits in Psychology (1.5 credits)

MAJOR PROGRAM IN PSYCHOLOGY (SCIENCE)

Program Requirements

The Program requires completion of 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:

1. PSYA01H3 Introductory Psychology: Part I
   and
   PSYA02H3 Introductory Psychology: Part II
   (1.0 credit)
2. PSYB01H3 Psychological Research Laboratory
   or
   PSYB04H3 Foundations in Psychological Research
   (0.5 credit)
3. STAB22H3 Statistics I (recommended)
   or
   STAB23H3 Introduction to Statistics for the Social Sciences
   or
   PSYB07H3 Data Analysis in Psychology
   (0.5 credit)
4. Credits at the B-level and C-level (2.5 credits)
   Students are required to take 2.0 credits at the B-level or C-level from one of the two content groups listed below and 0.5 credit from the other group:
1. Social and Developmental (courses listed in the 10- and 20-series);
2. Perception, Cognition and Physiology (courses listed in the 50- and 60-series)
3. Credits at the D-level (0.5 full credit)
   Students must choose one half credit from the D-level offerings in Psychology. Certain D-level NRO courses may be used to fulfill this requirement with the approval of the Supervisor of Studies.
4. Additional credits in Psychology (2.0 credits)
   Students must choose 2.0 further credits from any of the remaining courses in Psychology. At least 1.0 credit from these must be at the C-level.

MINOR PROGRAM IN PSYCHOLOGY (SCIENCE)

Program Requirements
The Program requires completion of 4.0 credits, of which 1.0 credit must be at the C-level:
1. PSYA01H3 Introductory Psychology: Part I
   and
   PSYA02H3 Introductory Psychology: Part II
   (1.0 credit)
2. PSYB01H3 Psychological Research Laboratory
   or
   PSYB04H3 Foundations in Psychological Research
   (0.5 credit)
3. STAB22H3 Statistics I
   or
   STAB23H3 Introduction to Statistics for the Social Sciences
   or
   PSYB07H3 Data Analysis in Psychology
   (0.5 credit)
4. Students are required to select 0.5 credit at the B-level from each of the two content groups listed below (1.0 credit):
   a. Social, Developmental and Personality (courses listed in the 10-, 20- or 30-series);
   b. Learning, Perception, Cognition and Physiology (courses listed in the 40-, 50- or 60-series);
5. 1.0 additional credit in Psychology at the C-level.

NOTE: students in the Minor in Psychology can register in no more than 1.0 full credit equivalent in psychology at the C-level.

Psychology Courses

PSYA01H3 Introductory Psychology: Part I
This course provides a general overview of topics including research techniques in psychology, evolutionary psychology, the biology of behaviour, learning and behaviour, sensation, perception, memory and consciousness. The most influential findings from each of these areas will be highlighted.
Exclusion: PSY100H, PSY100Y, (PSY101H)
Breadth Requirement: Natural Sciences

PSYA02H3 Introductory Psychology: Part II
This course provides a general overview of topics including language, intelligence, development, motivation and emotion, personality, social psychology, stress, mental disorders and treatments of mental disorders. The most influential findings from each of these areas will be highlighted.
Exclusion: PSY100H, PSY100Y, (PSY102H)
Breadth Requirement: Social & Behavioural Sciences

PSYB01H3 Psychological Research Laboratory
This course surveys the basic research techniques and designs used in the diverse field of psychological research, both in experimental and non-experimental areas. The topics range from the general principles of scientific research to concrete design issues, from sampling techniques to the typical problems faced when interpreting data.
Prerequisite: PSYA01H3 & PSYA02H3
Breadth Requirement: Social & Behavioural Sciences

PSYB03H3 Introduction to Computers in Psychological Research
The course will provide introductory knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure and result visualization with the aid of specific programming tools (e.g., Matlab).
Prerequisite: PSYA01H3 and PSYA02H3
Corequisite: PSYB07H3 or STAB22H3
Enrolment Limits: 70
Breadth Requirement: Quantitative Reasoning
NOTE: Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience.
Students in the Minor in Psychology will be admitted if space permits.

PSYB04H3 Foundations in Psychological Research
A practical introduction to research methods in psychology. Students will learn experimental designs commonly used in psychological research, how to assess whether a design has been applied correctly or incorrectly, and whether the conclusions drawn from the data are warranted. This course is designed for students who need to be able to evaluate and critique research, rather than conduct novel research.
Prerequisite: PSYA01H3 and PSYA02H3
Exclusion: PSYB01H3
Breadth Requirement: Social & Behavioural Sciences
Psychology

PSYB07H3 Data Analysis in Psychology
This course focuses on the fundamentals of the theory and the application of statistical procedures used in research in the field of psychology. Topics will range from descriptive statistics to simple tests of significance, such as Chi-Square, t-tests, and one-way Analysis-of-Variance. A working knowledge of algebra is assumed. Students in the Specialist programs in Psychology, Psycholinguistics or Neuroscience will be given priority for this course.
Breadth Requirement: Quantitative Reasoning

PSYB10H3 Introduction to Social Psychology
Surveys a wide range of phenomena relating to social behaviour. Social Psychology is the study of how feelings, thoughts, and behaviour are influenced by the presence of others. The course is designed to explore social behaviour and to present theory and research that foster its understanding.
Prerequisite: PSYA01H3 and PSYA02H3
Exclusion: PSY220H
Breadth Requirement: Social & Behavioural Sciences

PSYB20H3 Introduction to Developmental Psychology
Developmental processes during infancy and childhood. This course presents students with a broad and integrative overview of child development. Major theories and research findings will be discussed in order to understand how the child changes physically, socially, emotionally, and cognitively with age. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: PSYB21H3, PSY210H
Breadth Requirement: Social & Behavioural Sciences

PSYB21H3 Introduction to Developmental Psychology: Focus on Education
Child and adolescent development in education. This course presents students with a broad and integrative overview of child development as it pertains to education. Topics are organized chronologically beginning with prenatal development and continuing through selected issues in adolescence and life-span development. In addition to the lecture component, students will complete a field placement in which they observe children's behaviour and think critically about development. (Note: course includes 12-20 hours of field placements)
Prerequisite: Enrolment in CTEP
Exclusion: CTE100H, PSYB20H3, PSY210H
Recommended Preparation: PSYA01H3 & PSYA02H3
Breadth Requirement: Social & Behavioural Sciences

PSYB30H3 Personality
This course is intended to introduce students to the scientific study of the whole person in biological, social, and cultural contexts. The ideas of classical personality theorists will be discussed in reference to findings from contemporary personality research.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: PSY230H
Breadth Requirement: Social & Behavioural Sciences

PSYB32H3 Abnormal Psychology
The study of abnormal psychology is a search for why people behave, think, and feel in unexpected, sometimes bizarre, and typically self-defeating ways. Much less is known than we would like. However, this course will focus on the ways in which psychopathologists have been trying to learn the causes of abnormal behaviour and what they know about preventing and alleviating it.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: PSY240H, PSY340H
Breadth Requirement: Social & Behavioural Sciences

PSYB45H3 Behaviour Modification: Origins and Applications
A survey of attempts to regulate abnormal human behaviour. Basic principles of behavioural change including reinforcement, extinction, punishment and stimulus control; operant and respondent conditioning procedures; research strategies. Other topics include behavioural contracting, cognitive-behaviour therapy, rational-emotive therapy, and systematic desensitization; treatment of phobias; treatment of alcohol and drug abuse.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: PSY260H
Breadth Requirement: Social & Behavioural Sciences

PSYB51H3 Perception and Cognition
Theoretical and experimental understanding of perception and cognition. Topics include cognitive and perceptual processes; attention, thinking, and problem solving, and their role in the acquisition of knowledge. Special topics include visual, auditory and tactile perception, representation, and communication. Theory and research on perception and cognition, including visual, auditory and tactile perception, representation, and communication.
Topics include cognition and perception in the handicapped and normal perceiver; perceptual illusion, noise, perspective, shadow patterns and motion, possible and impossible scenes, human and computer scene-analysis, ambiguity in perception, outline representation. The research is on adults and children, and different species. Demonstrations and exercises form part of the course work.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: NROC64H3, PSY280H
Breadth Requirement: Natural Sciences

PSYB57H3 Memory and Cognition
Discussion of experiments and theories in human memory and cognition. This course provides an analysis of the research on encoding, storage and retrieval of information in human memory. Also surveyed are the related topics of attention, thinking, and problem solving, and their role in a general model of information processing.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: PSY270H
Recommended Preparation: PSYB07H3 or STAB22H3 or their equivalent
Breadth Requirement: Natural Sciences

PSYB64H3 An Introduction to Physiological Psychology
A survey of the biological mechanisms underlying fundamental psychological processes. Topics include the biological basis of motivated behaviour (e.g., emotional, ingestive, sexual, and reproductive behaviours; sleep and arousal), sensory processes and attention, learning and memory, and language.
Prerequisite: PSYA01H3 & PSYA02H3
Exclusion: NROC61H3, PSY290H
Breadth Requirement: Natural Sciences
PSYB65H3 Human Brain and Behaviour
The neurological basis of human behaviour: an introduction to human neuro-psychology. Hemispheric specialization, diseases of the central nervous system, behavioural consequences of damage to each of the cortical lobes, speech disorders, psychopharmacology and the biological basis of psychiatric disorders will be covered.
Prerequisite: PSYA01H3 & PSYA02H3
Breadth Requirement: Natural Sciences

PSYC02H3 Scientific Communication in Psychology
How we communicate in psychology and why. The differences between scientific and non-scientific approaches to behaviour and their implications for communication are discussed. The focus is on improving the student's ability to obtain and organize information and to communicate it clearly and critically, using the conventions of the discipline.
Prerequisite: PSYB01H3 & [PSYB07H3 or (SOCB06H3) or STAB22H3]
Enrolment Limits: Limited to students in the Specialist Programs in Psychology and in Mental Health Studies.
Breadth Requirement: Natural Sciences

PSYC03H3 Computers in Psychological Research: Advanced Topics
The course will provide advanced knowledge and hands-on training in computer-based implementations of experimental design, data processing and result interpretation in psychology. The course covers implementations of experimental testing paradigms, computational explorations of empirical data structure, and result visualization with the aid of specific programming tools (e.g., Matlab).
Prerequisite: [PSYB07H3 or STAB22H3] and PSYB03H3
Enrolment Limits: 35
Breadth Requirement: Quantitative Reasoning
NOTE: Priority will be given to Specialist, Specialist Co-op, and Major students in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.

PSYC04H3 Brain Imaging Laboratory
The course introduces brain imaging techniques, focusing on techniques such as high-density electroencephalography (EEG) and transcranial magnetic stimulation (TMS), together with magnet-resonance-imaging-based neuronavigation. Furthermore, the course will introduce eye movement recordings as a behavioural measure often co-registered in imaging studies. Students will learn core principles of experimental designs, data analysis and interpretation in a hands-on manner.
Prerequisite: PSYB01H3 and [PSYB07H3 or STAB22H3]
Enrolment Limits: 35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology, Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC05H3 Human Movement Laboratory
In this course students will be introduced to the study of human movement across a range of topics (e.g., eye-movements, balance, and walking), and will have the opportunity to collect and analyze human movement data. Additional topics include basic aspects of experimental designs, data analysis and interpretation of such data.
Prerequisite: PSYB01H3 and [PSYB07H3 or STAB22H3]
Enrolment Limits: 35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology, Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC06H3 Psychophysiology Laboratory
This course will provide students with an introduction to physiological processes that are related to psychological processes. Students will gain a theoretical background in psychophysiology as well as read key empirical papers related to the psychological correlates of each physiological system. This course will be a primary methods course for psychology specialists, such that students will acquire advanced skills involved in the acquisition of psychophysiological data and become well-versed in appropriate psychophysiological theory and inference.
Prerequisite: PSYB01H3 and [PSYB07H3 or STAB22H3] and PSYC02H3
Enrolment Limits: 35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC08H3 Advanced Data Analysis in Psychology
This course is a continuation of PSYB07H3. The primary focus of this course is on the understanding of Analysis-of-Variance and its application to various research designs. Examples will include a priori and post hoc tests. Finally, there will be an introduction to multiple regression, including discussions of design issues and interpretation problems.
Prerequisite: [PSYB07H3 or (SOCB06H3) or STAB22H3] and one additional B-level half-credit in Psychology
Exclusion: (STAC52H3), PSY202H
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies, Neuroscience and Paramedicine. Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Quantitative Reasoning

PSYC09H3 Applied Multiple Regression in Psychology
An introduction to multiple regression and its applications in psychological research. The course covers the data analysis process from data collection to interpretation: how to deal with missing data, the testing of assumptions, addressing problem of multicolinearity, significance testing, and deciding on the most appropriate model. Several illustrative data sets will be explored in detail. The course contains a brief introduction to factor analysis. The goal is to provide the students with the skills and understanding to conduct and interpret data analysis in non-experimental areas of psychology.
Prerequisite: [PSYB07H3 or STAB22H3] and an additional 0.5 credit at the B-level in Psychology
Enrolment Limits: 90
Breadth Requirement: Quantitative Reasoning
NOTE: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies, and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.

PSYC11H3 Social Psychology Laboratory
Introduces conceptual and practical issues concerning research in social psychology, and provides experience with several different types of research. This course is designed to consider in depth various research approaches used in social psychology (such as attitude questionnaires, observational methods for studying ongoing social interaction). Discussion and laboratory work.
Prerequisite: PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3
Exclusion: PSY329H
Enrolment Limits: 35; Restricted to students in the Specialist/Specialist
Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC12H3 The Psychology of Prejudice**
A detailed examination of selected social psychological topics introduced in PSYB10H3. This course examines the nature of attitudes, stereotypes and prejudice, including their development, persistence, and automaticity. It also explores the impact of stereotypes on their targets, including how stereotypes are perceived and how they affect perception, attributions, and coping.

**Prerequisite:** [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3 plus one additional B-level half credit in PSY

**Exclusion:** PSY322H

**Enrolment Limits:** Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC13H3 Social Cognition: Understanding Ourselves and Others**
A comprehensive survey of how cognitive processes (e.g., perception, memory, judgment) influence social behaviour. Topics include the construction of knowledge about self and others, attitude formation and change, influences of automatic and controlled processing, biases in judgment and choice, interactions between thought and emotion, and neural specializations for social cognition.

**Prerequisite:** [PSYB10H3 or PSYB57H3] and [PSYB07H3 or STAB22H3]

**Exclusion:** PSY326H, PSY473H, PSY417H

**Enrolment Limits:** 100

**Breadth Requirement:** Social & Behavioural Sciences

**NOTE:** Priority will be given to students in the Specialist/Specialist Co-op, and Major programs in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.

**PSYC14H3 Cross-Cultural Social Psychology**
A survey of the role of culture in social thought and behaviour. The focus is on research and theory that illustrate ways in which culture influences behaviour and cognition about the self and others, emotion and motivation. Differences in individualism and collectivism, independence and interdependence as well as other important orientations that differ between cultures will be discussed. Social identity and its impact on acculturation in the context of immigration will also be explored.

**Prerequisite:** [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB10H3 plus one additional B-level half credit in PSY

**Exclusion:** PSY321H

**Enrolment Limits:** Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC18H3 The Psychology of Emotion**
Emotion is examined in everyday life and in relation to the arts. The focus of this course is on a contrast between action and experience oriented approaches to emotion. An effort is made to synthesize the many theories of emotion coming from psychoanalysis, functionalism, behaviourism, social constructionism, and phenomenology.

**Prerequisite:** PSYB10H3

**Exclusion:** PSY331H, (PSY394H), PSY494H

**Enrolment Limits:** Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC21H3 Advanced Developmental Psychology**
An examination of selected issues pertaining to adult development and aging.

Examples of topics which may be considered: adaptation to parenthood, work-related functioning, continuity versus change in adulthood.

**Prerequisite:** PSYB20H3 and one additional B-level half-credit in PSY

**Exclusion:** PSY313H, PSY311H

**Recommended Preparation:** PSYB07H3 or STAB22H3 or their equivalent

**Enrolment Limits:** Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies, and the Specialists in Paramedicine and Psycholinguistics. Students in the Minor in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC23H3 Developmental Psychobiology**

**Prerequisite:** PSYB20H3

**Enrolment Limits:** Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.

**Breadth Requirement:** Natural Sciences

**PSYC26H3 Developmental Psychology Laboratory**
This course introduces conceptual and practical issues concerning research in developmental psychology.

Developmental psychology focuses on the process of change within and across different phases of the life-span. Reflecting the broad range of topics in this area, there are diverse research methods, including techniques for studying infant behaviour as well as procedures for studying development in children, adolescents, and adults. This course will cover a representative sample of some of these approaches.

**Prerequisite:** PSYB01H5 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB20H3

**Exclusion:** PSY319H

**Enrolment Limits:** 24; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.

**Breadth Requirement:** Social & Behavioural Sciences

**PSYC31H3 Clinical Neuropsychology**
Clinical neuropsychology is an applied science concerned with the behavioural expression of brain dysfunction. In this course we will first examine the brain and localization of neuropsychological function. We will then explore the science and practice of clinical neuropsychology where tests measuring different neuropsychological domains (e.g., memory, attention and so on) are employed in patient populations to infer brain dysfunction. Students in the Specialist (Co-operative) Program in Mental Health Studies should enrol in PSYC32H3, not in this course.

**Prerequisite:** PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB32H3 and PSYB65H3

**Exclusion:** PSYC32H3, (PSY393H)

**Enrolment Limits:** 75; Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies and Neuroscience. Students in the Specialist program in Integrative Biology and the Minor in Psychology will be admitted if space permits.
PSYC32H3 Clinical Neuropsychology Laboratory
The applied science concerned with the behavioural expression of brain dysfunction for students in the Specialist (Co-op) program in Mental Health Studies. Lecture and demonstration material will be as described for PSYC31H3, Clinical Neuropsychology, but students will also complete a laboratory component. The laboratory will afford the student the opportunity for hands-on experience with a number of neuropsychological measures and will emphasize the learning of specific test administration and interpretation.
Prerequisite: PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB32H3 and PSYB65H3
Exclusion: PSYC31H3
Enrolment Limits: Enrolment is limited to students in the Specialist (Co-operative) Program in Mental Health Studies.
Breadth Requirement: Natural Sciences

PSYC33H3 Neuropsychological Rehabilitation
An examination of the therapeutic methods used to improve the capacity of a brain damaged individual to process and use incoming information, enhancing functioning in everyday life. Students will be introduced to methods that aim to restore cognitive function by compensatory techniques. Neuropsychological rehabilitation problems caused by deficits in attention, visual processing, language, memory, reasoning/problem solving, and executive functioning will be stressed. Lectures and demonstrations. Students in the Specialist (Co-operative) Program in Mental Health Studies will have priority for entry to the course.
Prerequisite: [PSYC31H3 or PSYC32H3] & PSYB57H3
Breadth Requirement: Natural Sciences

PSYC35H3 Advanced Personality Psychology
This course is intended to advance students' understanding of contemporary personality theory and research. Emerging challenges and controversies in the areas of personality structure, dynamics, and development will be discussed.
Prerequisite: [PSYB07H3 or (SOCB06H3) or STAB22H3] and PSYB30H3 plus one additional B-level half-credit in PSY
Exclusion: PSYC37H3
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Social & Behavioural Sciences

PSYC36H3 Psychotherapy
This course will provide students with an introduction to prominent behavioural change theories (i.e. psychodynamic, cognitive/behavioural, humanist/existential) as well as empirical evidence on their efficacy. The role of the therapist, the patient and the processes involved in psychotherapy in producing positive outcomes will be explored.
Prerequisite: PSYB32H3
Exclusion: PSY343H
Enrolment Limits: Limited to students in the Mental Health Studies programs.
Breadth Requirement: Social & Behavioural Sciences

PSYC37H3 Psychological Assessment
This course deals with conceptual issues and practical problems of identification, assessment, and treatment of mental disorders and their psychological symptomatology. Students have the opportunity to familiarize themselves with the psychological tests and the normative data used in mental health assessments. Lectures and demonstrations on test administration and interpretation will be provided.
Prerequisite: PSYB32H3
Exclusion: PSY330H
Enrolment Limits: Limited to students in the Mental Health Studies programs.
Breadth Requirement: Social & Behavioural Sciences

PSYC39H3 Psychology and the Law
This course focuses on the application of psychology to the law, particularly criminal law including cognitive, neuropsychological and personality applications to fitness to stand trial, criminal responsibility, risk for violent and sexual recidivism and civil forensic psychology.
Prerequisite: PSYB32H3
Exclusion: (PSYC53H3), PSY328H, PSY344H
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies. Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Social & Behavioural Sciences

PSYC51H3 The Cognitive Neuroscience of Vision
This course will provide an in-depth examination of research in the field of visual cognitive neuroscience. Topics will include the visual perception of object features (shape, colour, texture), the perception of high-level categories (objects, faces, bodies, scenes), visual attention, and comparisons between the human and monkey visual systems.
Prerequisite: PSYB51H3 or PSYB57H3 or PSYB65H3
Exclusion: PSY380H
Enrolment Limits: 75; Restricted to students in the Specialist/Specialist Co-op, and Major programs in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC52H3 The Cognitive Neuroscience of Attention
This course is about understanding how the human brain collects information from the environment so as to perceive it and to interact with it. The first section of the course will look into the neural and cognitive mechanisms that perceptual systems use to extract important information from the environment. Section two will focus on how attention prioritizes information for action. Additional topics concern daily life applications of attentional research.
Prerequisite: [PSYB51H3 or PSYB57H3] and [PSYB07H3 or STAB22H3]
Exclusion: Exclusion: PSY475H
Enrolment Limits: 100
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.
PSYC54H3 Cognition and Representation
Recent research on the psychology of representation, in pictures, words, metaphors, analogies and symbols.
Topics will include developmental and cross-cultural research on children's drawing, the perception of pictures by the sighted, and blind people identifying raised pictures. It will also include studies on children and adults using literal and non-literal representation, including metaphors, similes, and analogies. It will include cross-cultural research on forms used as symbols, and studies on children and machines using symbols. Teaching method will be lectures and demonstrations.
Prerequisite: [PSYB07H3 or (SOCB06H3) or STAB22H3] and a PSYB20-series or a PSYB50-series half-credit
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies.
Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC55H3 Cognitive Neuroscience
The goal of this course is to present and analyze current methods, findings and theories relating brain function to cognitive processes such as perception, action, attention, memory, learning, and problem-solving. Recently developed research methods of functional neuro-imaging (including PET, MEG, and functional MRI) will be described along with the important research findings that they have generated. 
Prerequisite: PSYB57H3 and PSYB65H3
Exclusion: (PSY393), PSY493H
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies.
Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC56H3 Music Cognition
Studies the perceptual and cognitive processing involved in musical perception and performance.
This class acquaints students with the basic concepts and issues involved in the understanding of musical passages. Topics will include discussion of the physical and psychological dimensions of sound, elementary music theory, pitch perception and melodic organization, the perception of rhythm and time, musical memory, musical performance, and emotion and meaning in music.
Prerequisite: [PSYA01H3 and PSYA02H3] and [PSYB07H3 or (SOCB06H3) or STAB22H3] and a PSYB50-series half-credit
Enrolment Limits: Restricted to students in the Specialist/Specialist Co-op and Major programs in Psychology and Mental Health Studies.
Students in the Minor in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC57H3 Cognitive Neuroscience of Decision Making
This course will introduce students to current understanding, and ongoing debates, about how the brain makes both simple and complex decisions. Findings from single-cell neurophysiology, functional neuroimaging, and computational modeling will be used to illuminate fundamental aspects of choice, including reward prediction, value representation, action selection, and self-control.
Prerequisite: [PSYB07H3 or STAB22H3] and PSYB65H3
Recommended Preparation: PSYB03H3
Enrolment Limits: 100
Breadth Requirement: Natural Sciences
NOTE: Priority will be given to students in the Specialist/Specialist Co-op and Major programs in Psychology, Mental Health Studies and Neuroscience. Students in the Minor in Psychology will be admitted if space permits.

PSYC58H3 Cognitive Psychology Laboratory
This course introduces conceptual and practical issues concerning research in cognitive psychology.
Students will be introduced to current research methods through a series of practical exercises conducted on computers. By the end of the course, students will be able to program experiments, manipulate data files, and conduct basic data analyses.
Prerequisite: [PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3] and [PSYB51H3 or PSYB57H3]
Exclusion: PSY379H
Recommended Preparation: PSYC08H3
Enrolment Limits: 35; Restricted to students in the Specialist/Specialist Co-op programs in Psychology. Students in any Mental Health Studies program and the Major in Psychology will be admitted if space permits.
Breadth Requirement: Natural Sciences

PSYC59H3 History of Psychology
A survey of developments in Western philosophy and science which influenced the emergence of modern psychology in the second half of the Nineteenth Century. Three basic problems are considered: mind-body, epistemology (science of knowledge), and behaviour/motivation/ethics.
We begin with the ancient Greek philosophers, and then consider the contributions of European scholars from the Fifteenth through Nineteenth Centuries. Twentieth Century schools are discussed including: psychoanalysis, functionalism, structuralism, gestalt, behaviourism, and phenomenology.
This course is restricted to 3rd and 4th year students in Specialist Programs in Psychology, Mental Health Studies & Psycholinguistics.
Prerequisite: Two B-level half-credits in Psychology or permission of the instructor
Exclusion: PSY450H, (PSY300H)
Recommended Preparation: PSYB07H3 or STAB22H3 or their
**Exclusion:** COGC92H3, NROC93H3, PSY303H, PSY304H

be required.

Faculty at UTSC then a secondary advisor, that is appointed at UTSC, will supervise. If the proposed supervisor is not appointed to the Psychology Faculty at UTSC then a secondary advisor, that is appointed at UTSC, will be required.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology's website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, that is appointed at UTSC, will be required.

Prerequisite: 3.0 full credits in Psychology and permission of the proposed supervisor. (Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.)

Exclusion: COGC91H3, NROC90H3, PSY303H, PSY304H

**PSYC90H3 Supervised Study in Psychology**

An intensive research project intended to provide laboratory/field experience in data collection and analysis. The project must be completed over 2 consecutive terms. These courses provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology's website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, that is appointed at UTSC, will be required.

Prerequisite: 3.0 full credits in Psychology and permission of the proposed supervisor. (Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.)

Exclusion: COGC91H3, NROC90H3, PSY303H, PSY304H

**PSYC93H3 Supervised Study in Psychology**

An intensive research project intended to provide laboratory/field experience in data collection and analysis. The project must be completed over 2 consecutive terms. These courses provide an opportunity to engage in research in an area after completing basic coverage in regularly scheduled courses. The student must demonstrate a background adequate for the project proposed and should present a clear rationale to prospective supervisors. Regular consultation with the supervisor is necessary, and extensive data collection and analysis will be required. Such a project will culminate in a written research report.

Students must first find a supervisor before the start of the academic term in which the project will be initiated. They must then obtain a permission form from the Department of Psychology's website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and returned to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course, including the structure of the required log-book.

Students seeking supervision off campus are further advised to check the appropriateness of the proposed advisor with the Program Supervisor. If the proposed supervisor is not appointed to the Psychology faculty at UTSC then a secondary advisor, that is appointed at UTSC, will be required.

Prerequisite: 3.0 full credits in Psychology and permission of the proposed supervisor. (Note: Normally students need a cumulative GPA of at least 2.7 for permission to be granted.)

Exclusion: COGC91H3, NROC90H3, PSY303H, PSY304H

**PSYD11H3 Psychology of Interpersonal Relationships**

This course focuses on social psychological theory and research pertaining to close interpersonal relationships. The course will cover topics including perceptions of and interactions within close relationships, development and maintenance of relationships, and relationship conflict and dissolution.

Prerequisite: PSYB10H3 & [PSYC12H3 or PSYC14H3]


Enrolment Limits: 24

Breadth Requirement: Social & Behavioural Sciences

**PSYD12H3 Social Psychology of the Self**

This seminar explores the topic of the self from an experimental social-psychological perspective, including an in-depth analysis of the fundamental processes of the “hypenated self:” self-knowledge, self-esteem, self-regulation, for just a few examples. This course is designed to not only introduce students to much of the important theory and research in the social psychology of the self, but also to develop critical thinking skills.

Prerequisite: PSYB10H3 & [PSYC12H3 or PSYC14H3]

Exclusion: PSY326H, PSY420H

Enrolment Limits: 24

Breadth Requirement: Social & Behavioural Sciences

**PSYD14H3 Psychology of Morality**

This course provides an in-depth introduction to the field of moral psychology. In recent years there has been a resurgence of interest in the science of human morality; the goal of this course is to offer an introduction to the research in this field. The course will incorporate perspectives from a variety of disciplines including philosophy, animal behaviour, neuroscience, economics, and almost every area of scientific psychology (social psychology, developmental psychology, evolutionary psychology, and cognitive psychology). By the end of the course students will be well versed in the primary issues and debates involved in the scientific study of morality.

Prerequisite: PSYB10H3 and [PSYC12H3 or PSYC13H3 or PSYC14H3]

Exclusion: PSYD15H3 (if taken in Fall 2015)

Enrolment Limits: 24

Breadth Requirement: Social & Behavioural Sciences

**PSYD15H3 Current Topics in Social Psychology**

An intensive examination of selected issues and research problems in social psychology.

Prerequisite: PSYB10H3 & [PSYC12H3 or PSYC14H3]

Exclusion: PSY326H, PSY420H

Enrolment Limits: 24

Breadth Requirement: Social & Behavioural Sciences

**PSYD16H3 Critical Analysis in Social Psychology**

The development of social psychology is examined both as a discipline (its phenomena, theory, and methods) and as a profession. The Natural and Human Science approaches to phenomena are contrasted. Students are taught to observe the lived-world, choose a social phenomenon of interest to them, and then interview people who describe episodes from their lives in which these phenomena occurred. The students interpret these episodes and develop theories to account for their phenomena before searching for scholarly research on the topic.

Prerequisite: PSYC11H3 or PSYC12H3 or [PSYB10H3 plus one C-level half-credit in PSY]

Exclusion: PSY420H

Enrolment Limits: 24

Breadth Requirement: Social & Behavioural Sciences
PSYD17H3 Social Neuroscience
This course provides an overview of the emerging field of social neuroscience. It explores how integrating theory and methods from cognitive psychology, physiology, and neuroscience can be used to address fundamental questions in social psychology and, ultimately, broaden our understanding of mind, brain, and behaviour in a social world.
Prerequisite: PSYC12H3 & [PSYB64H3 or PSYB65H3]
Exclusion: PSY473H, (PSY373H)
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

PSYD18H3 Psychology of Gender
This course focuses on theory and research pertaining to gender and gender roles. The social psychological and social-developmental research literature concerning gender differences will be critically examined. Other topics also will be considered, such as gender-role socialization.
Prerequisite: PSYB10H3 plus two C-level half-credit in PSY
Exclusion: PSY323H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD20H3 Current Topics in Developmental Psychology
An intensive examination of selected issues and research problems in developmental psychology.
The specific content will vary from year to year with the interests of both instructor and students. Lectures, discussions, and oral presentations by students.
Prerequisite: PSYC21H3 or PLIC24H3 or [PSYB20H3 plus one C-level half-credit in PSY]
Exclusion: PSY410H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD22H3 Socialization Processes
The processes by which an individual becomes a member of a particular social system (or systems). The course examines both the content of socialization (e.g., development of specific social behaviours) and the context in which it occurs (e.g., family, peer group, etc.). Material will be drawn from both social and developmental psychology.
Prerequisite: PSYB10H3 & PSYB20H3 plus one C-level half-credit in PSY
Exclusion: PSY311H, PSY410H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD30H3 Current Topics in Personality Psychology
An intensive examination of selected issues and research problems in personality psychology. The specific content will vary from year to year.
Prerequisite: PSYB30H3 and PSYC35H3
Exclusion: PSY430H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD31H3 Cultural-Clinical Psychology
This course provides an in-depth introduction to the field of cultural-clinical psychology. We examine theoretical and empirical advances in understanding the complex interplay between culture and mental health, focusing on implications for the study and treatment of psychopathology. Topics include cultural variations in the experience and expression of mental illness.
Prerequisite: PSYB32H3 and [an additional 0.5 credit at the C-level

PSYD32H3 Personality Disorders
This course reviews the latest research on the causes, longitudinal development, assessment, and treatment of personality disorders. Students will learn the history of personality disorders and approaches to conceptualizing personality pathology. Topics covered include “schizophrenia-spectrum” personality disorders, biological approaches to psychopathy, and dialectical behaviour therapy for borderline personality disorder.
Prerequisite: PSYB30H3 & PSYB32H3 plus 0.5 credit at the C-level in PSY
Exclusion: PSY430H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD33H3 Current Topics in Abnormal Psychology
An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year.
Prerequisite: PSYB32H3 plus one C-level half-credit in PSY
Exclusion: PSY440H
Enrolment Limits: 24
Breadth Requirement: Social & Behavioural Sciences

PSYD34H3 Human Intelligence
Part I of this course reviews the classical theories as well as past research strategies and findings in the field of human intelligence. Part II examines current work in the area. Part III critically considers the concept of heritability, how it is estimated, and its application to the investigation of individual and group differences on IQ tests.
Prerequisite: PSYB01H3 and [PSYB07H3 or (SOCB06H3) or STAB22H3]
Recommended Preparation: PSYC08H3
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

PSYD35H3 Clinical Psychopharmacology
This course reviews the psychopharmacological strategies used for addressing a variety of mental health conditions including anxiety, depression, psychosis, impulsivity, and dementia. It will also address the effects of psychotropic drugs on patients or clients referred to mental health professionals for intellectual, neuropsychological and personality testing. Limitations of pharmacotherapy and its combinations with psychotherapy will be discussed.
Prerequisite: PSYB65H3 & PSYC62H3
Enrolment Limits: This course is restricted to students in the Mental Health Studies programs.
Breadth Requirement: Natural Sciences

PSYD37H3 Social Context of Mental Health and Illness
This course is an opportunity to explore how social practices and ideas contribute to the ways in which society, families and individuals are affected by mental health and mental illness.
Prerequisite: 10.0 credits completed and enrolment in the Combined BSc in Mental Health Studies/Masters of Social Work or Specialist/Specialist-Co-op programs in Mental Health Studies
Breadth Requirement: Natural Sciences

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PSYD50H3 Current Topics in Memory and Cognition
An intensive examination of selected topics. The specific content will vary from year to year.
Prerequisite: PSYB57H3 plus one C-level half-credit in PSY
Exclusion: PSY470H, PSY471H
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

PSYD51H3 Current Topics in Perception
The course provides an intensive examination of selected topics in recent research on perception. Topics may include research in vision, action, touch, hearing and multisensory integration. Selected readings will cover psychological and neuropsychological findings, neurophysiological results, synaesthesia and an introduction to the Bayesian mechanisms of multisensory integration.
Prerequisite: PSYB51H3 and [[0.5 credit from the PSYC50-series of courses] or NROC64H3]
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

PSYD66H3 Current Topics in Human Brain and Behaviour
An extensive examination of selected human brain and behaviour topics introduced in PSYB65H3. The neural bases of mental functions such as language, learning, memory, emotion, motivation and addiction are examples of the topics that may be included. Students will be expected to read and discuss current empirical research in this field.
Prerequisite: PSYB65H3
Corequisite: One additional C-level half-credit in Psychology
Recommended Preparation: PSYB07H3 or STAB22H3 or their equivalent
Enrolment Limits: 24
Breadth Requirement: Natural Sciences

PSYD98Y3 Thesis in Psychology
This course offers the opportunity to engage in a year long research project under the supervision of an interested member of the faculty in Psychology. The project will culminate in a written report in the form of a thesis and a poster presentation. During the course of the year, at appropriate times, students will meet to present their own research proposals, to appraise the proposals of others, and to discuss the results of their investigation. Students must first find a supervisor, which is usually confirmed before the start of the academic term in which the project will be initiated. Students will meet as a group with the coordinator as well as individually with their supervisor. This course is restricted to Specialists in Psychology and Mental Health Studies with a cumulative GPA of 3.3 or higher. Students planning to pursue graduate studies are especially encouraged to enrol in the course. Students must obtain a permission form from the Psychology departmental website (www.utsc.utoronto.ca/psych/undergraduates) that is to be completed and signed by the intended supervisor, and submitted to the Psychology Office. At that time, the student will be provided with an outline of the schedule and general requirements for the course. Students seeking supervision off campus will need to arrange co-supervision with a faculty member in Psychology at this campus.
Prerequisite: PSYB01H3 & PSYB07H3 & PSYC08H3, Psychology or Mental Health Studies Specialist, cumulative GPA of 3.3 or higher. Note: Registration in D-level courses on ROSI is tentative. This is to ensure spaces in these courses for students who need them to graduate at the end of the current session. ROSI will show your status in the course and its final confirmation.
Exclusion: NROD98Y3, COGD10H3, PSY400Y

PLIC54H3 Speech Physiology and Speech Disorders in Children and Adults
PLIC55H3 Psycholinguistics
PLIC75H3 Language and the Brain
PLID34H3 The Psycholinguistics of Reading
PLID44H3 Acquisition of the Mental Lexicon
PLID50H3 Speech Perception
PLID55H3 Disorders of Speech and Language
PLID56H3 Special Topics in Language Disorders in Children

These courses may be used as Psychology courses to fulfill Psychology program requirements. (See the Linguistics section of this Calendar for full descriptions).

PLIC24H3 First Language Acquisition
PLIC54H3 Speech Physiology and Speech Disorders in Children and Adults
PLIC55H3 Psycholinguistics
PLIC75H3 Language and the Brain
PLID34H3 The Psycholinguistics of Reading
PLID44H3 Acquisition of the Mental Lexicon
PLID50H3 Speech Perception
PLID55H3 Disorders of Speech and Language
PLID56H3 Special Topics in Language Disorders in Children

These courses may be used as Psychology courses to fulfill Psychology program requirements. (See the Linguistics section of this Calendar for full descriptions).

(PLIB25H3) Second Language Acquisition

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Public Policy

Faculty List

- A. Allahwala, B.A., M.A. (Freie Universität Berlin), Ph.D. (York), Associate Professor, Teaching Stream
- C. Cochrane, B.A. (St. Thomas), M.A. (McGill), Ph.D. (Toronto), Assistant Professor
- M. Hoffmann, B.S. (Michigan Technological University), Ph.D. (George Washington University), Professor
- N. Klenk, B.Sc., M.Sc. (McGill), Ph.D. (UBC), Assistant Professor
- R. Levine, B.A. (Rochester), Ph.D. (Duke), Assistant Professor, Teaching Stream
- S. Renckens, B.A., M.A., M.Sc. (Leuven), Ph.D. (Yale), Assistant Professor
- R. Schertzer, B.A. (Carleton), M.Sc., Ph.D. (London School of Economics), Assistant Professor
- G. Skogstad, B.A., M.A. (Alberta), Ph.D. (British Columbia), Professor
- J. Teichman, B.A., M.A., Ph.D. (Toronto), FRSC, Professor
- P. Triadafilopoulos, B.A. (Toronto), M.A., (Brock), Ph.D. (New School NY), Associate Professor

Associate Chair: Phil Triadafilopoulos
Program Advisor: Benjamin Pottruff Email: pol-advisor@utsc.utoronto.ca

Public Policy Programs

MAJOR PROGRAM IN PUBLIC POLICY (ARTS)

The Major Program in Public Policy equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and non-governmental sectors, or to continue to graduate training in public policy.

The Program is cross-disciplinary; public policy analysis is the exercise of applying the theoretical frameworks and positivist and interpretive methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

Program Requirements

Students must pay careful attention to the prerequisites for higher level courses.

Course requirements:
Students must complete 8.0 full credits as follows:

1. 1.0 credit at the A- or B-level in Anthropology, City Studies, Geography, International Development Studies, Political Science, or Sociology. At least 0.5 credits in A-level Political Science are recommended.

We also recommend interested students take introductory courses in departments like City Studies, Economics for Management Studies, Environmental Science, International Development Studies, and Sociology that may reflect their particular substantive interests.

2. Economics for Public Policy (1.0 credit):
   [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)]
   OR
   [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)]

3. Canadian Politics (1.0 credit)
   POLB50Y3 Canadian Government and Politics

4. Fundamentals of Public Policy (1.0 credit)
   PPGC66H3 Public Policy Making
   PPGC67H3 Public Policy in Canada

5. Research Methods (1.0 credit with at least 0.5 credit in quantitative methods)
   Quantitative Methods courses include:
   ANTC35H3 Quantitative Methods in Anthropology
   MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
   GGRA30H3 Geographic Information Systems
   POLC11H3 Applied Statistics for Politics and Public Policy
   STAB23H3 Introduction to Statistics for the Social Sciences
   Qualitative Methods courses include:

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ANTB19H3 Ethnography and the Comparative Study of Human Societies
GGRG31H3 Qualitative Geographical Methods: Place and Ethnography
POLC78H3 Political Analysis I

6. Applications of Public Policy (3.0 credits from the following list* of Public Policy courses, or other courses with the approval of the supervisor of studies. Of these, 1.0 credit must be from C- or D-level courses in Political Science.)

CITB04H3 City Politics
CITC04H3 Municipal Planning Law in Ontario
CITC07H3 Urban Social Policy
CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
CITC15H3 Taxing and Spending: Public Finances in Canadian Cities
CITC16H3 Planning and Governing the Metropolis
CITC18H3 Urban Transportation Policy Analysis
MGEB31H3/(ECMB35H3) Public Decision Making
MGEB32H3/(ECMB36H3) Economic Aspects of Public Policy
MGEC31H3/(ECMC31H3) Economics of the Public Sector: Taxation
MGEC32H3/(ECMC32H3) Economics of the Public Sector: Expenditures
MGEC34H3/(ECMC34H3) Economics of Health Care
MGEC38H3/(ECMC38H3) The Economics of Canadian Public Policy
MGEC91H3/(ECMC91H3) Economics and Government
GGRC13H3 Urban Political Geography
HLTB40H3 Health Policy and Health Systems
HLTC43H3 Politics of Canadian Health Policy
IDSB01H3 Political Economy of International Development
IDSB04H3 Introduction to International/Global Health
MGSC03H3/(MGTC42H3) Public Management
MGSC05H3/(MGTC45H3) The Changing World of Business – Government Relations
MGSC12H3 Narrative and Management
POLC36H3 Law and Public Policy
POLC53H3 Canadian Environmental Policy
POLC54H3 Intergovernmental Relations in Canada
POLC57H3 Intergovernmental Relations and Public Policy
POLC65H3 Political Strategy
POLC83H3 Applications of American Foreign Policy
POLC93H3 Public Policies in the United States
POLD50H3 Political Interests, Political Identity, and Public Policy
POLD52H3 Immigration and Canadian Political Development
POLD53H3 Political Disagreement in Canada
POLD67H3 The Limits of Rationality
POLD89H3 Global Environmental Politics
POLD90H3 Public Policy and Human Development in the Global South
PPGD64H3 Comparative Public Policy
SOCB47H3 Social Inequality
SOCSC37H3 Environment and Society

* Many of these courses have prerequisites, please plan accordingly. In addition, we recommend taking methods courses from within your disciplinary major program.

MAJOR (CO-OPERATIVE) PROGRAM IN PUBLIC POLICY (ARTS)

Co-op Contact: askcoop@utsc.utoronto.ca

The Co-operative Program in Public Policy is a work-study program which combines academic studies in various disciplines with work terms in public enterprises, the private sector, and non-governmental organizations. Two work terms, each of four months duration, must be completed along with the academic program. An optional, third work term may be completed with the permission of the Co-op Coordinator.

The program equips students with the analytical and methodological skills to secure employment as policy analysts in government, business, and the non-governmental sectors, or to continue on to graduate training in public policy. The Program is cross-disciplinary; public policy analysis is the exercise of applying the theoretical frameworks and the positivist and interpretive methodologies of the social sciences and humanities to understand the development, implementation, and evaluation of public policy. It requires the ability to think clearly and critically, to design and execute research projects, to analyze both quantitative and qualitative data, and to write clearly. It also requires an understanding of the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

For information on fees, work terms and standing in the Program, please see the Social Sciences and Humanities Co-operative section of this Calendar.
Program Admission

Prospective Applicants: For direct admission from secondary school or for students who wish to transfer to U of T Scarborough from another U of T faculty or from another post-secondary institution, see the Co-operative Programs section in this Calendar.

Current U of T Scarborough students: Application procedures can be found at the Registrar's Office website at: www.utsc.utoronto.ca/subjectpost. The minimum qualifications for entry are 4.0 credits plus a cumulative GPA of at least 2.5.

Program Requirements
In addition to the program requirements described in the Public Policy Major, students must complete two co-op work terms.

Work Placement
To be eligible for the first work term, students must have completed at least 10 credits, including 5.0 credits as a University of Toronto Scarborough student including POLB50Y3 (Canadian Government and Politics), and 0.5 credit of Research Methods. Prior to their first work term, students must also successfully complete Arts & Science Co-op Work Term Preparation Activities, which include multiple networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.

MINOR PROGRAM IN URBAN PUBLIC POLICY AND GOVERNANCE (ARTS)

The cross-disciplinary Minor program in Urban Public Policy and Governance equips students with the conceptual tools and methodological skills they will need to understand and analyze processes of city-regional and municipal governance and policy making in Canadian and comparative perspective. The main emphasis is placed on the policy and governance dilemmas of contemporary local governments and how these are distinct from those experienced at other levels: structural revenue constraints, infrastructure deficits, socio-spatial polarization, competition for investment, inadequate accountability and ethics regimes for politicians and public servants, and the distinctive ways in which local policymaking takes place through public deliberation.

Students completing the Minor program in Urban Public Policy and Governance combined with a Major program in City Studies, Public Policy, Human Geography, Political Science, Economics for Management Studies, History, Critical Development Studies or other relevant programs will be well prepared for graduate studies in public policy and governance, urban planning, and public administration, and for public sector careers at the municipal and provincial levels, or in the non-profit and advocacy sectors.

Program Requirements
This program requires the completion of 4.0 credits as follows:

1. Foundations (1.0 credit):
   [CITB01H3 Canadian Cities and Planning and CITB04H3 City Politics], or
   [GGRA03 Cities and Environments and GGRB05 Urban Geography], or
   POLB50Y3 Canadian Government and Politics

2. Core courses (1.0 credit):
   CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking
   CITC15H3 Taxing and Spending: Public Finance in Canadian Cities

3. Applications of Urban Public Policy and Governance (2.0 credit):
   Choose from:
   CITC04H3 Municipal and Planning Law in Ontario
   CITC07H3 Urban Social Policy
   CITC16H3 Planning and Governing the Metropolis
   CITC17H3 Civic Engagement in Urban Politics
   CITD01H3 City Issues and Strategies
   CITD10H3 Seminar in Selected Issues in City Studies
   GGRB13H3 Urban Political Geography
   GGRB33H3 The Toronto Region
   PPGC66H3/(POLC66H3) Public Policy Making
   PPGC67H3/(POLC67H3) Public Policy in Canada

Public Policy Courses

PPGC66H3 Public Policy Making
This course provides an introduction to the study of public policy. The course will address theories of how policy is made and the influence of
key actors and institutions. Topics include the policy cycle (agenda setting, policy information, decision making, implementation, and evaluation), policy durability and change, and globalization and policy making.

Areas of Focus: Public Policy, Comparative Politics, Canadian Government and Politics

Prerequisite: [POLB50Y3 or equivalent] or [1.5 credits at the B-level in CIT courses]
Exclusion: (POLC66H3)
Breadth Requirement: Social & Behavioural Sciences

PPGC67H3 Public Policy in Canada
This course is a survey of contemporary patterns of public policy in Canada. Selected policy studies including managing the economy from post-war stabilization policies to the rise of global capitalism, developments in the Canadian welfare state and approaches to external relations and national security in the new international order.

Areas of Focus: Canadian Government and Politics; Public Policy

Prerequisite: [POLB50Y3 or equivalent] or 1.5 credits at the B-level in CIT courses
Exclusion: (POLC67H3)
Breadth Requirement: Social & Behavioural Sciences

PPGD64H3 Comparative Public Policy
This seminar course explores some of the major theoretical approaches to the comparative analysis of public policies across countries. The course explores factors that influence a country's policy making process and why countries' policies diverge or converge. Empirically, the course examines several contemporary issue areas, such as economic, social or environmental policies.

Areas of Focus: Comparative Politics; Public Policy

Prerequisite: [(POLB50Y3 or equivalent) or (POLB92H3 and (POLB93H3))] and [1.5 credits at the C-level in POL courses]
Exclusion: (POLD64H3)
Recommended Preparation: PPGC66H3 and PPGC67H3
Enrolment Limits: 25
Breadth Requirement: Social & Behavioural Sciences
The Department of Historical and Cultural Studies continues to offer courses in a variety of programs that address major questions in the study of religion. It also offers introductory courses in the history and practice of world religions.

## Religion Programs

### MINOR PROGRAM IN RELIGION (ARTS)

Enrolment in the Minor program in Religion has been suspended indefinitely. Students who enrolled at UTSC prior to the 2013 Summer Session should refer to the 2012/2013 UTSC Calendar.

### Religion Courses

#### RLGA01H3 World Religions I

An introduction to major religious traditions of the world. This course emphasizes the history, beliefs, practices and writings of Hinduism, Jainism, Sikhism, Buddhism, Confucianism, Taoism, and Shinto. Exclusion: (HUMB04H3)

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGA02H3 World Religions II

An introduction to major religious traditions of the world. This course emphasizes the history, beliefs, practices and writings of Judaism, Christianity and Islam.

Exclusion: (HUMB03H3)

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGB02H3 Living Religions: Rituals and Experiences

Critical comparative study of the major Indian religious traditions.

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGB10H3 Introduction to the Study of Religion

An introduction to the academic study of religion, with special attention to method and theory.

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC05H3 The Qur'an in Interpretive and Historical Context

An exploration of the origins, content, interpretation, and significance of the Qur'an, with a particular emphasis on its relationship to the scriptural tradition of the Abrahamic faiths. No knowledge of Arabic is required.

Prerequisite: RLGA01H3 or (RLGB01H3) or (HUMB03H3)

Exclusion: RLG351H, NMC285H, (HUMC17H3)

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC06H3 Saints and Mystics in Buddhism

Comparative study of the Madhyamaka and Yogacara traditions, and doctrines such as emptiness (sunyata), Buddha-nature (tathagatagarbha), cognitive-representation only (vijnaptimatrata), the three natures (trisvabhava).

Prerequisite: RLGA01H3 or (HUMB04H3)

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC07H3 Topics in Buddhist Philosophy: Buddhist Ethics

Buddhism is a response to what is fundamentally an ethical problem - the perennial problem of the best kind of life for us to lead. Gotama was driven to seek the solution to this problem and the associated ethical issues it raises. This course discusses the aspects of *sila*, ethics and psychology, *nirvana*; ethics in Mahayana; Buddhism, utilitarianism, and Aristotle.

Prerequisite: RLGA01H3 or (HUMB04H3) or (PHLB42H3)

Exclusion: NEW214Y, (PHLC40H3)

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC09H3 Islam in Asia

The course examines the development of Islam in the contexts of Asian religions and cultures, and the portrayal of the Muslim world in Asian popular culture.

Prerequisite: RLGA01H3 or (HUMB04H3)

#### RLGC10H3 Hinduism in South Asia and the Diaspora

An examination of Hinduism in its contemporary diasporic and transnational modes in South Asia. Attention is also paid to the development of Hinduism in the context of colonialism.

Prerequisite: RLGA01H3 or (HUMB04H3)

Recommended Preparation: RLGB02H3

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC05H3 Religious Diversity in Speech and Text

Philosophical, anthropological, historical, and linguistic discussions about language use in a variety of religious contexts. The course examines the function of language through an analysis of its use in both oral and written form.

Prerequisite: Any 5 full credits, including RLGA01H3 or RLGA02H3 or RLGB10H3

Breadth Requirement: History, Philosophy & Cultural Studies

#### RLGC14H3 Religion and Globalization: Continuities and Transformations

The course cultivates an appreciation of the global perspective of religions in the contemporary world and how religious frameworks of interpretation interact with modern social and political realities. It provides a viewpoint of religion through ideas and issues related to globalization, syncretism, and modernity.

Prerequisite: Any 5 full credits, including RLGA01H3 or RLGA02H3 or RLGB10H3

Breadth Requirement: Social & Behavioural Sciences
RLGC40H3  Selected Topics in the Study of Religion I
Intensive study of selected topics discussed in RLGA01H3 (World Religions I) that will vary with each offering of the course.
Prerequisite: 2.0 full credits in RLG & permission of the instructor
Exclusion: (HUMC44H3)
Breadth Requirement: History, Philosophy & Cultural Studies

RLGC41H3  Selected Topics in the Study of Religion II
Intensive study of selected topics discussed in RLGA02H3 (World Religions II) that will vary with each offering of the course.
Prerequisite: 2.0 full credits in RLG & permission of the instructor
Exclusion: (HUMC43H3)
Breadth Requirement: History, Philosophy & Cultural Studies

RLGD01H3  Supervised Readings in the Study of Religion
A student-initiated research project to be approved by the Department and supervised by one of the faculty members.
Prerequisite: 2.0 full credits in RLG at the C-level & permission of the instructor

RLGD02H3  Seminar in Religion
A seminar in which students have the opportunity, under the supervision of a member of the Religion faculty, to develop and present independent research projects focused around a set of texts, topics, and/or problems relevant to the study of religion.
Prerequisite: RLGB10H3 & 2 C-level courses in Religion
Enrolment Limits: 15
Society and Environment Courses

SOED01H3  Environmental Internship
This course offers students the opportunity to gain practical research experience as an intern with an environmental organization. Students will be required to arrange their own internship and to complete at least 50 hours of work with the organization. Evaluation will be based on a research paper.
Prerequisite: Completion of at least 10 full credits and prior permission of the program supervisor.
Sociology

Faculty List

- C. Childress, B.A. (Vassar College), M.A., Ph.D. (UC-Santa Barbara), Assistant Professor
- J. Chun, B.A. (Dartmouth), M.A., Ph.D. (Berkeley), Associate Professor
- J. Hannigan, B.A., M.A. (Western Ontario), Ph.D. (Ohio State), Professor
- J. Hermer, B.A. (Western), M.A. (Carleton), D.Phil. (Oxon), Associate Professor
- P.-c. Hsiung, B.A. (National Chun-sing), M.A. (Chinese Cultural), M.A., Ph.D. (UCLA), Associate Professor
- P. Landolt, B.A., M.A. (York), M.A., Ph.D. (Johns Hopkins), Associate Professor
- K. Liddle, B.A. (Oberlin College, Ohio), M.A. (Auburn University, Alabama), Ph.D. (Emory University, Atlanta), Assistant Professor
- A. Mullen, B.A. (Berkeley), M.A., Ph.D. (Yale), Associate Professor
- R. O’Toole, B.A. (Leeds), PGCE (London), M.A. (McMaster), Ph.D. (Toronto), Professor Emeritus
- R. Salem, B.A. (American University-Cairo), M.A. (Oxford), Ph.D. (Princeton), Assistant Professor
- A. Sev’er, B.A., M.A. (Windsor), Ph.D. (York), Professor Emeritus
- D. Silver, B.A. (Berkeley), M.A., Ph.D. (Chicago), Associate Professor
- J. Tanner, B.Sc. (London), PGCE (Leicester), M.A., Ph.D. (Alberta), Professor
- S. Ungar, B.A. (McGill), M.A., Ph.D. (York), Associate Professor

Chair: Patricia Landolt
Associate Chair: Ann Mullen
Program Advisor: J. Roopnarinesingh Email: sociology-advisor@utsc.utoronto.ca

Sociology challenges you to see the world in new ways to solve social problems, build resilient communities, and nurture democratic structures. Sociology asks complex questions. It seeks to explain how society is ordered and disordered, what accounts for social cohesion, cooperation, and conflict and the causes of social inequality. Sociology is diverse. Sociologists study many social issues: the impact of race and ethnicity, gender, sexual orientation, ability and disability on individual life chances; institutions such as families, workplaces, prisons, states, and schools; the role of habits, ideas, and symbols in shaping social relations and institutions; processes such as globalization, democratization, immigration, and more.

Sociology programs are unique because of the emphasis on teaching students how to design and carry out quantitative and qualitative research and analyze evidence to arrive at understanding and explanation. Sociology program students acquire a diverse set of transferable skills. You will learn to use theoretically informed and evidence-based arguments to assess concrete social problems. You will become adept at analyzing and interpreting statistics and qualitative data using tables and graphs. You will develop excellent verbal and written communication skills and you will learn to translate research into effective social policy recommendations.

Students successfully completing a degree in Sociology at UTSC will acquire a strong foundation for both further studies at a graduate level and for professional careers in fields including law, education, social work and health care, marketing and communication, human resources, non-profit organizations and social policy among others.

Students are encouraged to contact the Program Advisor or Associate Chair to discuss program requirements and their individual course of study.

Planning a Program in Sociology

Students are advised to take required courses in the Major and Specialist Programs as early in their careers as possible. For example, SOCA01H3 and SOCA02H3 should be taken during the first year, SOCB05H3, STAB22H3, SOCB42H3 and SOCB43H3 should be taken during the second year and SOCC40H3 should be taken during the third year. Failure to do so may lead to timetable conflicts and could prolong the completion of the Program.

Program Admission

Students may apply to the Sociology Major or Specialist Program after completing 4.0 to 5.0 credits including SOCA01H3 and SOCA02H3. Admission is determined on the basis of a student’s overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after completing 8.0 - 10.0 credits, admission will be on the basis of overall GPA and grades in SOC courses taken.

Prerequisites: Students are reminded that they are not permitted to register in courses for which they have not completed the prerequisites indicated in the Calendar. They may only enter a course for which they lack the prerequisites by obtaining the permission of the instructor prior to registration. Ineligible students will be removed from courses.

Applied Writing Skills Courses: Courses designated as Applied Writing Skills Courses aim to develop students’ critical writing and logic of argumentation skills. These courses allow students to receive formative feedback on drafts of written work and the opportunity to develop a piece of writing over the term. Specific in-depth feedback on writing is given by the course instructor or course TA. The Applied Writing Skills Courses are: SOCC03H3, SOCC11H3, SOCC23H3, SOCC24H3, SOCC30H3, SOCC31H3, SOCC34H3, SOCC40H3 and SOCC58H3.

Research Courses: Students interested in careers involving research or in pursuing graduate school or professional programs are strongly advised to take courses that ensure the development of their research skills including logic of argumentation, research design, and data collection and analysis. In
their second year, students should take SOCB05H3 and STAB22H3. In the third year, two C-level research practicums - SOCC23H3 and SOCC31H3 - offer students the opportunity to carry out independent research projects. Students can choose between a qualitative and a quantitative research practicum, or can take both. In their final year students are encouraged to take research based courses such as SOCD21H3, SOCD50H3 and SOCD51H3.

Special topic courses: Themes for special topic courses will vary year to year. Check the Department website.

The Department offers courses in five areas of concentration. Students are encouraged to develop depth of learning through focused study in one or two areas of concentration as follows:

<table>
<thead>
<tr>
<th>Culture and Cities</th>
<th>Criminology and Sociology of Law</th>
<th>Gender and Family</th>
<th>Migration and Ethnicity</th>
<th>Economy, Politics and Society</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOCB44H3 Sociology of Cities and Urban Life</td>
<td>SOCB50H3 Deviance and Normality I (SOCB51H3) Deviance and Normality II</td>
<td>SOCB22H3 Sociology of Gender</td>
<td>SOCB53H3 Race and Ethnicity</td>
<td>SOCB30H3 Political Sociology: An Introduction</td>
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<tr>
<td>SOCB58H3 Sociology of Culture</td>
<td>SOCC03H3 Collective Behaviour</td>
<td>SOCB49H3 Sociology of Family</td>
<td>SOCC25H3 Ethnicity, Race and Migration</td>
<td>SOCB54H3 Sociology of Work and Industry I</td>
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<tr>
<td>SOCC26H3 Sociology of Urban Cultural Policies</td>
<td>SOCC11H3 Policing and Security</td>
<td>SOCC09H3 Sociology of Gender and Work</td>
<td>SOCC34H3 Migrations &amp; Transnationalisms</td>
<td>SOCC04H3 Social Movements</td>
</tr>
<tr>
<td>SOCC27H3 Sociology of Suburbs and Suburbanization</td>
<td>SOCC30H3 Criminal Behaviour</td>
<td>SOCC24H3 Sociology of Gender and Families</td>
<td>SOCC52H3 International Migration and Immigrant Incorporation</td>
<td>SOCC15H3 Work, Employment and Society</td>
</tr>
<tr>
<td>SOCC44H3 Media and Society</td>
<td>SOCC45H3 Youth and Society</td>
<td>SOCC29H3 Special Topics in Sociology of Family</td>
<td>SOCC55H3 Special Topics in Race and Ethnicity</td>
<td>SOCC58H3 Global Transformations: Politics, Economy and Society</td>
</tr>
<tr>
<td>SOCC54H3 Special Topics in Sociology of Culture</td>
<td>SOCD05H3 Advanced Seminar in Criminology and Sociology of Law</td>
<td>SOCD38H3 Gender and Education</td>
<td>SOCC10H3 Advanced Seminar in Gender and Family</td>
<td>SOCD20H3 Advanced Seminar in Migration and Ethnicity</td>
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<tr>
<td>SOCD01H3 Advanced Seminar in Culture and Cities</td>
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<td>SOCD10H3 Advanced Seminar in Gender and Family</td>
<td>SOCD21H3 Immigrant Scarborough</td>
<td>SOCD25H3 Advanced Seminar in Economy, Politics and Society</td>
</tr>
</tbody>
</table>

Sociology Programs

SPECIALIST PROGRAM IN SOCIOLOGY (ARTS)

Program Admission

Enrolment in the Specialist Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Specialist students will be entitled to priority access to SOCB42H3, SOCB43H3, SOCC23H3 & SOCC31H3, for fall-winter sessions, during the summer early registration period.

Program Requirements

The Program requires completion of 12.0 full credits as described below. No more than 14.0 full credits in Sociology may be included in a four-year degree.

1. SOCA01H3 Introduction to Sociology I
2. SOCA02H3 Introduction to Sociology II
3. SOCB05H3 Logic of Social Inquiry
4. STA223H3 Introduction to Statistics for the Social Sciences
5. SOCB42H3 Classical Sociological Theory I
6. SOCB43H3 Classical Sociological Theory II
7. 3.0 full credits at the B-level in Sociology
8. SOCC23H3 Practicum in Qualitative Research Methods
   or
   SOCC31H3 Practicum in Quantitative Research Methods
9. One C-level SOC course (0.5 credit) that has been designated as an Applied Writing Skills course
104.5 additional credits at the C- or D-level in SOC courses*, of which at least 1.0 credit must be at the D-level.

*Students may substitute courses from cognate disciplines with the prior approval of the program supervisor.

**MAJOR PROGRAM IN SOCIOLOGY (ARTS)**

Program Admission

Enrolment in the Major Program is limited. Students must normally apply to enter the Program after completing 4 or 5 full credits including SOCA01H3 and SOCA02H3. Decisions are made on Program admissions only twice a year, in May and in August, and are based on student requests submitted to the Registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in SOCA01H3 and SOCA02H3. For students applying after 8-10 credits, admission will be on the basis of overall GPA and grades in SOC courses taken. Major students will be entitled to priority access to SOCB42H3 and SOCB43H3 for fall-winter sessions, in the summer early registration period.

Program Requirements

The Program requires completion of 7.0 full credits in Sociology including:

1. SOCA01H3 Introduction to Sociology I
   SOCA02H3 Introduction to Sociology II
2. SOCB05H3 Logic of Social Inquiry
3. STAB23H3 Introduction to Statistics for the Social Sciences
4. SOCB42H3 Classical Sociological Theory I
5. SOCB43H3 Classical Sociological Theory II
6. One C-level SOC course (0.5 credit) that has been designated as an Applied Writing Skills course
7. 3.5 additional credits in SOC courses, of which at least 1.5 credits must be at the C- or D-level

**MINOR PROGRAM IN SOCIOLOGY (ARTS)**

Program Admission

Admission to the Minor Program in Sociology is not limited. All students who apply for this Program will be admitted. However, students are warned that they are not guaranteed admission to B-level and C-level courses during fall and winter session, and thus will be accommodated only after other Program students have been admitted to these courses. Thus some courses may be unavailable, or available only in the summer.

Program Requirements

The Program requires completion of 4.0 full credits in Sociology as follows:

1. SOCA01H3 Introduction to Sociology I
   SOCA02H3 Introduction to Sociology II
2. SOCB05H3 Logic of Social Inquiry
3. 1.0 credit from the following:
   SOCB30H3 Political Sociology
   SOCB42H3 Classical Sociological Theory I
   SOCB43H3 Classical Sociological Theory II
   SOCB47H3 Social Inequality
4. 0.5 additional credit at the B-level in Sociology
5. 1.0 additional credit at the C-level in Sociology

**MINOR PROGRAM IN CULTURE, CREATIVITY, AND CITIES (ARTS)**

The Minor program in Culture, Creativity and Cities offers students an in-depth understanding of the relationship between culture and cities. The Minor is interdisciplinary in content and method. Through experiential learning, students will develop a suite of transferable skills in written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis.

Program Advisor: Janet Roopnarinesingh janet@utsc.utoronto.ca

Program Requirements

This program requires the completion of 4.0 credits as follows:

1. 0.5 credit from the following:
   ANTA02H3 Introduction to Anthropology: Society, Culture and Language
   GGRA02H3 The Geography of Global Processes
   MDSA01H3 Introduction to Media Studies
   MGTA01H3 Introduction to Business
   MGTA02H3 Managing the Business Organization
Sociology

SOCA01H3 Introduction to Sociology I
SOCA02H3 Introduction to Sociology II
VPAA10H3 Introduction to Arts Management

2. 0.5 credit in B-level Sociology courses:
SOCB58H3 Sociology of Culture

3. 1.0 credit from the following:
CITB02H3 Foundations of City Studies
ENGB37H3 Popular Literature and Mass Culture
GGRB05H3 Urban Geography
GGRB55H3 Cultural Geography
MDSB03H3 Advertising and Consumer Culture
SOCB44H3 Sociology of Cities and Urban Life
VPAB05H3 Introduction to Contemporary Cultural Theory

4. 0.5 credit in C-level Sociology courses:
SOC26H3 Sociology of Urban Cultural Policies

5. 1.0 credit from the following:
ENGC59H3 Geography and Regionalism in Literature
ENGC83H3 Studies in World Cinema
GGRC13H3 Urban Political Geography
SOC27H3 Sociology of Suburbs and Suburbanization
SOC44H3 Media and Society
VPAC15H3 Cultural Policy

6. 0.5 credit in D-level Sociology courses:
SOC51H3 Capstone Seminar in Culture, Creativity, and Cities

MINOR PROGRAM IN MIGRATION AND ETHNIC DIVERSITY (ARTS)

The Minor program in Migration and Ethnic Diversity offers students an understanding of the causes and consequences of international migration in sending, transit and receiving societies. Issues of ethnic diversity, pluralism, and social equity are highlighted. The Minor is interdisciplinary in content and method; through data-driven coursework and experiential learning, students will develop a suite of transferable skills in research design, quantitative and qualitative data analysis, and written, oral, and digital communication. Paired with a discipline-specific Major, graduates of the program will have a comparative advantage in the labour market and graduate school market due to concrete training and experience in research and data analysis, and knowledge of migration and ethnic diversity grounded in material conditions.

Program Advisor: Janet Roopnarinesingh janetr@utsc.utoronto.ca

Program Restrictions
Students in the Minor in Migration and Ethnic Diversity may count only 1.0 credit in Sociology courses, from the following list, towards completion of the program: SOCA01H3, SOCA02H3, SOCB05H3.

Program Requirements
The program in Migration and Ethnic Diversity requires completion of 4.0 full credits as follows:

1. 1.0 credit from the following:
ANTA02H3 Introduction to Anthropology: Society, Culture and Language
GASA01H3/HISA06H3 Introducing Global Asia and its Histories
GASA02H3 Introduction to Global Asia Studies
GGRA02H3 The Geography of Global Processes
HISA04H3 Themes in World History I
HISA05H3 Themes in World History II
HLTA02H3 Foundations in Health Studies I
HLTA03H3 Foundations in Health Studies II
POLA01H3 Critical Issues in Politics I
POLA02H3 Critical Issues in Politics II
SOC01H3 Introduction to Sociology I
SOC02H3 Introduction to Sociology II
2. 0.5 credit as follows:
SOCB60H3 Issues in Migration & Ethnic Diversity

3. 0.5 credit from the following:
ANTB19H3 Ethnography and the Comparative Study of Human Societies
ANTB20H3 Culture, Politics and Globalization
GGRB02H3 The Logic of Geographical Thought
HISB03H3 Critical Writing and Research for Historians
HLTB15H3 Introduction to Health Research Methodology
SOCB05H3 Logic of Social Inquiry

4. 0.5 credit from the following:
SOCB53H3 Race and Ethnicity
GGRA35H3 The Great Scarborough Mashup: People, Place, Community, Experience
ANTB16H3 Canadian Cultural Identities
GASB53H3 Mughals and the World, 1500-1858 AD

5. 1.0 credit from the following:
ANTC34H3 The Anthropology of Transnationalism
CITC01H3 Urban Communities and Neighbourhoods Case Study: East Scarborough
GASC59H3 The Making of Tamil Worlds
GASD01H3 Senior Seminar: Topics in Global Asian Migrations
GASD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire
GGRC56H3 Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities
GGRD19H3 Spaces of Multiraciality: Critical Mixed Race Theory
HISB14H3 Edible History: History of Global Foodways
HISC11H3 Multiculturalism and Cultural Identities in the Greek and Roman Worlds
HISC36H3 People in Motion: Immigrants and Migrants in U.S History
HISD31H3 Thinking of Diversity: Perspectives on American Pluralisms
HISD35H3 The Politics of American Immigration, 1865-present
HLTD06H3 Special Topics in Migration and Public Health
POLD52H3 Immigration and Canadian Political Development
SOCB22H3 Ethnicity, Race and Migration
SOCB52H3 International Migration & Immigrant Incorporation
SOCB55H3 Special Topics in Race and Ethnicity

6. 0.5 credit from the following:
SOCD15H3 Advanced Seminar in Migration and Ethnicity
SOCD21H3 Immigrant Scarborough

**Sociology Courses**

**SOCA01H3 Introduction to Sociology I**
An introduction to the basic concepts, principles and methods of Sociology as a discipline for the study of society. Sociology I covers theory, methods, culture, social interaction and social stratification.
Exclusion: SOC101Y
Breadth Requirement: Social & Behavioural Sciences

**SOCA02H3 Introduction to Sociology II**
Sociology II applies the ideas from Sociology I to social institutions and processes. Topics covered include race and ethnicity, gender, urbanisation, globalisation, population and deviant behaviour.
Prerequisite: SOCA01H3
Exclusion: SOC101Y
Breadth Requirement: Social & Behavioural Sciences

**SOCB05H3 Logic of Social Inquiry**
This course introduces the logic of sociological research and surveys the major quantitative and qualitative methodologies. Students learn to evaluate the validity of research findings, develop research questions and select appropriate research designs.
Prerequisite: [SOCA01H3 and SOCA02H3 and enrolment in a Sociology program] or [any 4.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Exclusion: SOC200H, SOC200Y, (SOCB40H3), (SOCB41H3)
Enrolment Limits: 170
Breadth Requirement: Quantitative Reasoning

**SOCB22H3 Sociology of Gender**
This course examines gender as a sociological category that organizes and, at the same time, is organized by, micro and macro forces. By examining how gender intersects with race, ethnicity, class, sexuality, age, and other dimensions, we analyze the constitution and evolution of gendered ideology and practice.
Prerequisite: [SOCA01H3 and SOCA02H3] or [WSTA01H3 and WSTA03H3]
Breadth Requirement: Social & Behavioural Sciences
Sociology

SOCB26H3 Sociology of Education
This course offers a sociological perspective on a familiar experience: attending school. It examines the stated and hidden purposes of schooling; explores how learning in schools is organized; evaluates the drop-out problem; the determinants of educational success and failure; and, it looks at connections between school and work.
Prerequisite: SOCA01H3 and SOCA02H3
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB30H3 Political Sociology
An examination of power in its social context. Specific attention is devoted to how and under what conditions power is exercised, reproduced and transformed, as well as the social relations of domination, oppression, resistance and solidarity. Selected topics may include: nations, states, parties, institutions, citizenship, and social movements.
Prerequisite: SOCA01H3 and SOCA02H3
Exclusion: SOC260H
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB42H3 Classic Sociological Theory I
The development of classic sociological theory from its Enlightenment origins to the eve of the 20th century. Special emphasis is placed on the work of Adam Smith, Karl Marx, Alexis de Tocqueville, and Auguste Comte. Special tutorials are devoted to learning the craft of effective writing.
Prerequisite: SOCA01H3 and SOCA02H3
Exclusion: SOC203Y
Enrolment Limits: 170
Breadth Requirement: History, Philosophy & Cultural Studies

SOCB43H3 Classic Sociological Theory II
The development of classic sociological theory from the end of the 19th century to the eve of World War II. Special emphasis is placed on the work of Emile Durkheim, Max Weber, Georg Simmel, and G.H. Mead. Special tutorials are devoted to learning the craft of effective writing.
Prerequisite: SOCA01H3 and SOCA02H3
Exclusion: SOC203Y
Enrolment Limits: 170
Breadth Requirement: History, Philosophy & Cultural Studies

SOCB44H3 Sociology of Cities and Urban Life
A theoretical and empirical examination of the processes of urbanization and suburbanization. Considers classic and contemporary approaches to the ecology and social organization of the pre-industrial, industrial, corporate and postmodern cities.
Prerequisite: [SOCA01H3 and SOCA02H3] or [any 4.0 credits and enrolment in the Minor in Culture, Creativity, and Cities, or the Major/Major Co-op in City Studies]
Exclusion: SOC205Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB47H3 Social Inequality
A sociological examination of the ways in which individuals and groups have been differentiated and ranked historically and cross-culturally. Systems of differentiation and devaluation examined may include gender, race, ethnicity, class, sexual orientation, citizenship/legal status, and ability/disability.
Prerequisite: [SOCA01H3 and SOCA02H3] or [any 4.0 credits and enrolment in the Major/Major Co-op in Public Policy]
Exclusion: SOC301Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB49H3 Sociology of Family
This course explores the family as a social institution, which shapes and at the same time is shaped by, the society in North America. Specific attention will be paid to family patterns in relation to class, gender, and racial/ethnic stratifications. Selected focuses include: socialization; courtship; heterosexual, gay and lesbian relations; gender division of labour; immigrant families; childbearing and childrearing; divorce; domestic violence; elderly care.
Prerequisite: [SOCA01H3 and SOCA02H3] or [WSTA01H3 and WSTA03H3]
Exclusion: SOC214Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB50H3 Deviance and Normality I
This course explores how deviance and normality is constructed and contested in everyday life. The course revolves around the themes of sexuality, gender, poverty, race and intoxication. Particular attention will be paid to the role of official knowledge in policing social norms.
Prerequisite: SOCA01H3 and SOCA02H3
Exclusion: SOC212Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB53H3 Race and Ethnicity
The course draws on a geographically varied set of case studies to consider both the historical development and contemporary state of the sociological field of race, racialization and ethnic relations.
Prerequisite: [SOCA01H3 and SOCA02H3] or [any 4.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Exclusion: SOC210Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCB54H3 Sociology of Work
Economic activity drives human society. This course explores the nature of work, how it is changing, and the impact of changes on the transition from youth to adult life. It also examines racism in the workplace, female labour force participation, and why we call some jobs ‘professions’, but not others.
Prerequisite: SOCA01H3 and SOCA02H3
Exclusion: SOC207Y, SOC317Y, SOC370Y
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences
SOCC58H3 Sociology of Culture
An introduction to various ways that sociologists think about and study culture. Topics will include the cultural aspects of a wide range of social phenomena - including inequality, gender, economics, religion, and organizations. We will also discuss sociological approaches to studying the production, content, and audiences of the arts and media.
Prerequisite: [SOCA01H3 and SOCA02H3] or [any 4.0 credits and enrolment in the Minor in Culture, Creativity, and Cities]
Exclusion: (SOCB18H3), SOC360Y
Enrolment Limits: 170
Breadth Requirement: History, Philosophy & Cultural Studies

SOCC59H3 Sociology of Law
This course examines the character, authority, and processes of law in contemporary liberal democracies.
Prerequisite: SOCA01H3 and SOCA02H3
Enrolment Limits: 170
Breadth Requirement: Social & Behavioural Sciences

SOCC60H3 Issues in Migration & Ethnic Diversity
The course examines the cultural, demographic, and political causes and consequences of migration; laws and government policies shaping migration and refugee flows; demographic, social, cultural, and legal dimensions of migration; and issues of integration and ethnic diversity from historical and contemporary perspectives.
Prerequisite: Completion of 1.0 credit from the following courses
[SOCA01H3, SOCA02H3, ANTA02H3, GGRA02H3, GAS01H3/HISA06H3, GAS02H3, HISA04H3, HISA05H3]
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Minor in Migration & Ethnic Diversity. Additional students will be admitted as space permits.

SOCC03H3 Collective Behaviour
The study of uninstitutionalized group behaviour - crowds, panics, crazes, riots and the genesis of social movements.
This course has been designated an Applied Writing Skills Course.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC04H3 Social Movements
The development of an approach to social movements which includes the following: the origin of social movements, mobilization processes, the career of the movement and its routinization. The course readings will be closely related to the lectures, and a major concern will be to link the theoretical discussion with the concrete readings of movements.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] or STAB23H3 and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Recommended Preparation: SOCB22H3 or SOCB49H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC09H3 Sociology of Gender and Work
Explores the interaction of gender and work, both paid and unpaid work. Critically assesses some cases for central theoretical debates and recent research. Considers gender differences in occupational and income attainment, housework, the relation of work and family, gender and class solidarity, and the construction of gender identity through occupational roles.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] and STAB23H3 and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Exclusion: SOC366H
Recommended Preparation: SOCB22H3 or SOCB49H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC11H3 Policing and Security
This course examines the character of policing and security programs in advanced liberal democracies. Attention will be paid to the nature and enforcement of modern law by both state and private agents of order, as well as the dynamics of the institutions of the criminal justice system.
This course has been designated an Applied Writing Skills Course.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Exclusion: SOC213Y, SOCC06Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC15H3 Work, Employment and Society
An upper level course that examines a number of critical issues and important themes in the sociological study of work. Topics covered will include: the changing nature and organization of work, precarious employment, different forms of worker organizing and mobilization, the professions, the transition from school to work.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] and STAB23H3 and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Recommended Preparation: SOCB54H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in Sociology programs.

SOCC23H3 Practicum in Qualitative Research Methods
This course provides students with hands-on experience conducting qualitative research. Each student will design and carry out a research project. Students will select their own research questions, review the relevant sociological literature, develop a research design, and conduct qualitative research, analyze, write up and present their findings. This course has been designated an Applied Writing Skills Course.
Prerequisite: [10.0 credits including SOCA01H3 and SOCA02H3 and STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Exclusion: SOC302H, SOC223H3
Enrolment Limits: 15
Breadth Requirement: Social & Behavioural Sciences

SOCC24H3 Sociology of Gender and Families
A theoretical and empirical examination of different forms of family and gender relations. Of special interest is the way in which the institution of the family produces and reflects gendered inequalities in society. Themes covered include changes and continuities in family and gender relations, micro-level dynamics and macro-level trends in family and gender, as well as the interplay of structure and agency.
Prerequisite: [SOCC05H3 or (SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Breadth Requirement: Social & Behavioural Sciences

Enrolment Limits: 60

**SOCC25H3 Ethnicity, Race and Migration**
A theoretical and empirical examination of ethnic identity formation, race and racism, and their relationship to international migration. Prerequisite: [[SOCB05H3 or (SOCB04H3 and SOCB47H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Recommended Preparation: SOCB22H3 or SOCB49H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC26H3 Sociology of Urban Cultural Policies**
A popular civic strategy in transforming post-industrial cities has been the deployment of culture and the arts as tools for urban regeneration. In this course, we analyze culture-led development both as political economy and as policy discourse. Topics include the creative city; spectacular consumption spaces; the re-use of historic buildings; cultural clustering and gentrification; eventful cities; and urban 'scenes'. Prerequisite: [[SOCB05H3 or (SOCB04H3 and SOCB47H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]]
Exclusion: SOCB36Y
Recommended Preparation: SOCB44H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC27H3 Sociology of Suburbs and Suburbanization**
This course examines the political economy of suburban development, the myth and reality of suburbanism as a way of life, the working class suburb, the increasing diversity of suburban communities, suburbia and social exclusion, and the growth of contemporary suburban forms such as gated communities and lifestyle shopping malls. Prerequisite: [[SOCB05H3 or (SOCB04H3 and SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)] or [SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] or [CITB02H3 and enrolment in the Major/Major Co-op in City Studies]]
Recommended Preparation: SOCB22H3 or SOCB49H3
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC29H3 Special Topics in Sociology of Family**
Sociological analyses of diverse family patterns across historical time and geographic space are offered under this course. Topics covered may include family structure, socialization, marriage, divorce, the gender division of labor, inheritance, and alternative family forms. Special attention is given to sociological theories accounting for dynamics within and across families. Please see the Sociology Department website for a listing of the course topic for current and upcoming semesters. Prerequisite: [[SOCB05H3 or (SOCB04H3 and (SOCB41H3)] or [STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC30H3 Criminal Behaviour**
The young figure prominently in people's views about, and fears of, crime. This course examines definitions of crime, how crime problems are constructed and measured. It looks at schools and the street as sites of criminal behaviour, and considers how we often react to crime in the form of moral panics. This course has been designated an Applied Writing Skills Course. Prerequisite: [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)]
Exclusion: SOCB306Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC31H3 Practicum in Quantitative Research Methods**
This course provides students with hands-on experience conducting quantitative research. Each student will design and carry out a research project using secondary data. Students will select their own research questions, review the relevant sociological literature, develop a research design, conduct statistical analyses and write up and present their findings. This course has been designated an Applied Writing Skills Course. Prerequisite: [10.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and [STAB23H3 or (SOCB06H3)] and [a cumulative GPA of at least 2.3]
Exclusion: SOCB300H, (SOCB31H3)
Enrolment Limits: 15
Breadth Requirement: Quantitative Reasoning

**SOCC34H3 Migrations & Transnationalisms**
Examines the relationship between contemporary modes of international migration and the formation of transnational social relations and social formations. Considers the impact of trans-nationalisms on families, communities, nation-states, etc. This course has been designated an Applied Writing Skills Course. Prerequisite: [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3), IDSB01H3] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC37H3 Environment and Society**
This course links studies in the classical sociology of resources and territory (as in the works of Harold Innis, S.D. Clark, and the Chicago School), with modern topics in ecology and environmentalism. The course will include empirical research, and theoretical issues, in the relationship of various social systems to their natural environments. Prerequisite: [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3), IDSB01H3] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Exclusion: SOCB305H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC38H3 Taking Stock of Social Policy**
This course provides students with hands-on experience conducting research. Each student will design and carry out a research project using secondary data. Students will select their own research questions, review the relevant sociological literature, develop a research design, conduct statistical analyses and write up and present their findings. This course has been designated an Applied Writing Skills Course. Prerequisite: [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCB39H3)] or [any 8.0 credits and enrolment in the Major/Major Co-op in Public Policy]]
Exclusion: SOCB385H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

**SOCC39H3 Social Policy and Public Policy**
This course provides an overview of social policy and the role of the state in regulating and redistributing resources. Prerequisite: [SOCB05H3 and [STAB23H3 or (SOCB06H3)] and [a cumulative GPA of at least 2.3]
Exclusion: SOCB300H, (SOCB31H3)
Enrolment Limits: 15
Breadth Requirement: Quantitative Reasoning

**SOCC42H3, SOCB43H3, SOCB47H3, (SOCC39H3)**

**SOCB22H3 or SOCB49H3**

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SOCC38H3 Gender and Education
An examination of a number of key issues in the sociology of education, focusing particularly upon gender and higher education.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC40H3 Contemporary Sociological Theory
This course surveys key topics in contemporary sociological theory. The development of sociological theory from the end of World War II to the late 1960’s. Special attention is devoted to the perspectives of Functionalism, Conflict Theory and Symbolic Interactionism.
This course has been designated an Applied Writing Skills Course.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Exclusion: (SOC05SY3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC44H3 Media and Society
Provides an introduction to the emergence, organization and regulation of various media forms; social determinants and effects of media content; responses of media audiences; and other contemporary media issues.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] or SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities.
Exclusion: (SOCB56H3), (SOCB57H3)
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC45H3 Youth and Society
This course examines youth as a social category, a critical stage in the life course. Topics to be covered include: Youth and music, health, work and politics.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Sociology programs.

SOCC46H3 Special Topics in Sociology of Law
The course covers various approaches to the study of law in society.
Topics covered may include the interaction between law, legal, non-legal institutions and social factors, the social development of legal institutions, forms of social control, legal regulation, the interaction between legal cultures, the social construction of legal issues, legal profession, and the relation between law and social change.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: See the Sociology Department website for a listing of the course topic for current and upcoming semesters.

SOCC47H3 Creative Industries
An introduction to organizational and economic sociology through the lens of creative industries. Students will be introduced to different theoretical paradigms in the study of organizations, industries, and fields. The course is divided into four major modules on creative industries: inequality and occupational careers; organizational structure and decision making under conditions of uncertainty; market and field-level effects; and distribution and promotion. This course has been designated an Applied Writing Skills Course.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students in the Specialist and Major programs in Sociology and the Minor in Culture, Creativity, and Cities.

SOCC52H3 International Migration and Immigrant Incorporation
The course provides an overview of competing theories and concepts in the field of international migration and immigrant incorporation. Discussion puts the Canadian case in comparative perspective. Topics include global migration flows, refugeehood, citizenship and non-citizenship, economic incorporation, children of immigrants, and social exclusion.
Prerequisite: [[SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Exclusion: (SOCB52H3) and SOC210Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC54H3 Special Topics in Sociology of Culture
Sociological analysis of the role of culture in societies is offered under this course. Topics may include the study of material cultures such as works of art, religious symbols, or styles of clothing, or non-material cultures such as the values, norms, rituals, and beliefs that orient action and social life.
Prerequisite: [SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Please see the Sociology Department website at http://www.utsc.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.

SOCC55H3 Special Topics in Race and Ethnicity
This course addresses key concepts and debates in the research on race and ethnicity. Topics covered may include historical and global approaches to: assimilation, ethnic relations, intersectionality, racialization, and scientific racism.
Prerequisite: [[SOCB05H3 or ([SOCB40H3 and (SOCB41H3)]) or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Exclusion: (SOCB52H3) and SOC210Y
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: Please see the Sociology Department website at http://www.utsc.utoronto.ca/~socsci/ for a listing of the course topics for current and upcoming semesters.
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SOCC58H3 Global Transformations: Politics, Economy and Society
A sociological examination of contemporary global transformations including changing social, economic, and political conditions. Topics examined may include the shifting nature of state-society relations in a global context; the emergence of globally-integrated production, trade and financial systems; and the dynamics of local and transnational movements for global social change.

This course has been designated as a Writing Skills course.
Prerequisite: [SOCB05H3 or [(SOCB40H3 and (SOCB41H3))] and [1.0 credit from the following: SOCB42H3, SOCB43H3, SOCB47H3, (SOC239H3)]
Exclusion: SOC236H
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences

SOCC59H3 Special Topics in Social Inequality
Sociological analyses of stratification processes and the production of social inequality with a focus on economy and politics. Topics covered may include work and labour markets, the state and political processes. Attention is given to grassroots mobilization, social movements, and contestatory politics.
Prerequisite: [SOCB05H3 or [SOCB40H3 and (SOCB41H3)] or STAB23H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]
Enrolment Limits: 60
Breadth Requirement: Social & Behavioural Sciences
NOTE: See the Sociology Department website for a listing of the course topic for current and upcoming semesters.

SOCD01H3 Advanced Seminar in Culture and Cities
This course offers an in-depth examination of selected topics in Culture and Cities. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, SOCB44H3, SOCB58H3, (SOC239H3)] and [SOC244H3 or SOCC54H3] and [an additional 0.5 credit at the C-level in Sociology]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.

SOCD05H3 Advanced Seminar in Criminology and Sociology of Law
This course offers an in-depth examination of selected topics in Criminology and Sociology of Law. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: SOCB05H3 and [1.0 credit from the following: [SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, SOCB50H3, (SOCB51H3), (SOC239H3)] and [0.5 credit from the following: SOCC03H3, SOCC11H3, SOCC30H3, SOCC45H3] and [an additional 0.5 credit at the C-level in Sociology]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.

SOCD10H3 Advanced Seminar in Gender and Family
This course offers an in-depth examination of selected topics in Gender and Family. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOC239H3)] and [0.5 credit from the following: SOCC09H3, SOCC24H3, SOCC29H3, SOC338H3] and [an additional 0.5 credit at the C-level in Sociology]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.

SOCD15H3 Advanced Seminar in Migration and Ethnicity
This course offers an in-depth examination of selected topics in Migration and Ethnicity. Students will be required to conduct independent research based on primary and/or secondary data sources. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: [SOCB05H3 and [1.0 credit from the following: [SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOC239H3)] and [0.5 credit from the following: SOCC25H3, SOCC34H3, SOCC52H3, SOCC55H3] and [an additional 0.5 credit at the C-level in Sociology]] or [SOCC60H3 and an additional 15.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given first to students enrolled in the Minor in Migration and Ethnic Diversity, then to students in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.

SOCD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies
This seminar examines the transformation and perpetuation of gender relations in contemporary Chinese societies. It pays specific attention to gender politics at the micro level and structural changes at the macro level through in-depth readings and research.
Same as GASP20H3
Prerequisite: [SOCB05H3 and one C-level course in SOC] OR [GASA01H3 and GASA02H3 and one C-level course from the options in requirement #2 of the Specialist or Major programs in Global Asia Studies]
Exclusion: GASP20H3
Recommended Preparation: GASP20H3 and GASC20H3
Enrolment Limits: 20

SOCD21H3 Immigrant Scarborough
This course will teach students how to conduct in-depth, community-based research on the social, political, cultural and economic lives of immigrants. Students will learn how to conduct qualitative research including participant observation, semi-structured interviews and focus groups. Students will also gain valuable experience linking hands-on research to theoretical debates about migration, transnationalism and multicultural communities. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: [SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOC239H3)] and [0.5 credit from the following: SOCC25H3, SOCC34H3, SOCC52H3, SOC55H3] and [an additional 0.5 credit at the C-level in Sociology]] or [SOCC60H3 and an additional 15.0 credits and enrolment in the Minor in Migration and Ethnic Diversity]]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

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NOTE: For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.utsc.utoronto.ca/sociology/.

SOCD25H3 Advanced Seminar in Economy, Politics and Society
This course offers an in-depth examination of selected topics in Economy, Politics and Society. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: SOCBO5H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] and [0.5 credit from the following: SOCC04H3, SOCC15H3, SOCC58H3] and [an additional 0.5 credit at the C-level in Sociology]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Specialist and Major programs in Sociology. Additional students will be admitted as space permits.

SOCD40H3 Supervised Independent Research
Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.
Prerequisite: Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and [STAB23H3 or (SOCB06H3)] and [[SOCB05H3 or (SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3] and permission of the instructor; and permission of the sociology supervisor of studies.
Exclusion: SOCC03H3, SOCC39H3, SOCC58H3

SOCD41H3 Supervised Independent Research
Independent research using field methods, survey analysis, library or archival research; regular supervision of data collection and analysis; final written research report. Intended for upper level students with well above average performance in sociology and whose interests or needs are not met by other sociology courses being offered.
Prerequisite: Completion of at least 15.0 full credits including SOCA01H3 and SOCA02H3 and [STAB23H3 or (SOCB06H3)] and [[SOCB05H3 or (SOCB40H3) and (SOCB41H3)] and SOCB42H3 and SOCB43H3] and permission of the instructor; and permission of the sociology supervisor of studies.
Exclusion: SOCC03H3, SOCC39H3, SOCC58H3

SOCD42H3 Advanced Seminar in Sociological Theory
This course offers an in depth exploration of significant topics in contemporary and/or sociological theory. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: [SOCB05H3 or (SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] and [0.5 credit from the following: SOCC03H3, SOCC40H3, SOCC58H3] and [an additional 0.5 credit at the C-level in Sociology]
NOTE: For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.utsc.utoronto.ca/sociology/.

SOCD44H3 Advanced Seminar on Issues in Contemporary Sociology
Exploration of current debates and controversies surrounding recent scholarly developments in Sociology. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.
Prerequisite: [SOCB05H3 or (SOCB40H3) and (SOCB41H3)] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)] and [an additional 1.0 credit at the C-level in Sociology]
NOTE: For a listing of the course topics for current and upcoming semesters check the Department's website at http://www.utsc.utoronto.ca/sociology/.

SOCD50H3 Research Seminar: Realizing the Sociological Imagination
This course presents students with the opportunity to integrate and apply their sociological knowledge and skills through conducting independent research. In a step-by-step process, each student will design and conduct an original research study. The course is especially suited for those students interested in pursuing graduate studies or professional careers involving research skills.
Prerequisite: 12.0 credits including SOCA01H3 and SOCA02H3 and SOCB05H3 and [STAB23H3 or (SOCB06H3)] and [SOCB23H3 or SOCC31H3] and a cumulative GPA of at least 2.7
Enrolment Limits: 15
Breadth Requirement: Social & Behavioural Sciences

SOCD51H3 Capstone Seminar in Culture, Creativity, and Cities
This course provides a hands-on learning experience with data collection, analysis, and dissemination on topics discussed in the Minor in Culture, Creativity, and Cities. It involves substantial group and individual-based learning, and may cover topics as diverse as the role of cultural fairs and festivals in the city of Toronto, the efficacy of arts organizations, current trends in local cultural labour markets, artistic markets inside and outside of the downtown core, food culture, and analysis of governmental datasets on arts participation in the city.
Prerequisite: 15.0 credits completed, including [[SOCB58H3 and SOCC26H3] or [SOCA01H3 and SOCA02H3 and SOCB05H3]] and [1.0 credit from the following: SOCB42H3, SOCB43H3, SOCB30H3, SOCB47H3]
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences
NOTE: Priority will be given to students enrolled in the Minor in Culture, Creativity, and Cities followed by Specialist and Major programs in Sociology. Additional students will be admitted as space permits.
Statistics

Faculty List

- K. Butler, B.Sc. (Birmingham), M.Sc., Ph.D. (Simon Fraser), Lecturer
- S. Damouras, B.Sc. (Athens Univ. of Econ. and Bus.), M.Sc. (Warwick), Ph.D. (Carnegie Mellon), Assistant Professor, Teaching Stream
- M. Evans, B.Sc. (Western Ontario), M.Sc., Ph.D. (Toronto), Professor
- S. Kang, B.Sc., M.Sc. (Chonnam National University, South Korea), M.Sc., Ph.D. (Toronto), Assistant Professor, Teaching Stream
- D. Roy, B.Sc., M.Eng., Ph.D. (MIT), Assistant Professor
- M. Samarakoon, B.Sc. (Colombo), M.Sc. (Alberta), Ph.D. (Toronto), Associate Professor, Teaching Stream
- J. Tomal, B.Sc., M.Sc. (Dhaka), Ph.D. (British Columbia), Assistant Professor
- B. Virag, B.A. (Harvard), M.A., Ph.D. (Berkeley), Professor

Associate Chair: J. Scherk Email: scherk@utsc.utoronto.ca (416-287-7043)

Probability and statistics have developed over a period of several hundred years as attempts to quantify uncertainty. With its origins in modeling games of chance, probability theory has become a sophisticated mathematical discipline with applications in such fields as demography, genetics and physics.

Statistics is concerned with the proper collection and analysis of data, both to reduce uncertainty and to provide for its assessment via probability. Applications range from pre-election polling to the design and analysis of experiments to determine the relative efficacies of different vaccines.

STAB22H3 and STAB27H3 serve as a non-technical introduction to statistics. These courses are designed for students from disciplines where statistical methods are applied. STAB52H3 is a mathematical treatment of probability. STAB57H3 is an introduction to the methods and theory of statistical inference. The C-level courses build on the introductory material to provide a deeper understanding of statistical methodology and of its practical implementation.

The Specialist Program in Statistics is eligible for inclusion in the Concurrent Teacher Education Program (CTEP). Please refer to the Concurrent Teacher Education section of this Calendar for further information.

Combining Statistics and Economics Programs

Students who wish to combine studies in statistics and economics should consult the Economics for Management section of this Calendar for information on the economics programs and restrictions on the order in which courses must be taken.

Service Learning and Outreach (Previously known as Science Engagement)

For experiential learning through community outreach and classroom in-reach, please see the Teaching and Learning section of this Calendar.

Statistics Programs

SPECIALIST PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: S. Damouras Email: sdamouras@utsc.utoronto.ca (416-208-4794)

Program Objectives

This program provides training in the discipline of Statistics. Students are given a thorough grounding in the theory underlying statistical reasoning and learn the methodologies associated with current applications. A full set of courses on the theory and methodology of the discipline represent the core of the program. In addition students select one of two streams, each of which provides immediately useful, job-related skills. The program also prepares students for further study in Statistics and related fields.

The Quantitative Finance Stream focuses on teaching the computational, mathematical and statistical techniques associated with modern day finance. Students acquire a thorough understanding of the mathematical models that underlie financial modeling and the ability to implement these models in practical settings. This stream prepares students to work as quantitative analysts in the financial industry, and for further study in Quantitative Finance.

The Statistical Machine Learning and Data Mining Stream focuses on applications of statistical theory and concepts to the discovery (or “learning”) of patterns in massive data sets. This field is a recent development in statistics with wide applications in science and technology including computer vision, image understanding, natural language processing, medical diagnosis, and stock market analysis. This stream prepares students for direct employment in industry and government, and for further study in Statistical Machine Learning.

Program Requirements

To complete the program, a student must meet the course requirements described below. (One credit is equivalent to two courses.)
The first year requirements of the two streams are almost identical, except that the Quantitative Finance stream requires MGEA02H3/(ECMA04H3) while the Statistical Machine Learning and Data Mining stream requires CSCA67H; these courses need not be taken in the first year. In the second year the two streams have considerable overlap. This structure makes it relatively easy for students to switch between the two streams as their interests in Statistics become better defined.

Note: There are courses on the St. George campus that can be taken to satisfy some of the requirements of the program. STAB52H3, STAB57H3 and STAC67H3, however, must be taken at the University of Toronto Scarborough; no substitutes are permitted without permission of the program supervisor.

Core (7.5 credits)

1. Writing Requirement (0.5 credit) (*)

   (*) It is recommended that this requirement be satisfied by the end of the second year.

2. A-level courses (2.5 credits)
   CSCA08H3 Introduction to Computer Science I
   CSCA48H3 Introduction to Computer Science II
   MATA23H3 Linear Algebra I
   One of:
      MATA31H3* Calculus I for Mathematical Sciences
      MATA30H3 Calculus I for Physical Sciences
   One of:
      MATA37H3* Calculus II for Mathematical Sciences
      MATA36H3 Calculus II for Physical Sciences

   (*) MATA31H3 and MATA37H3 are recommended; the latter requires the former.

3. B-level courses (2.5 credits)
   MATB24H3 Linear Algebra II
   MATB41H3 Techniques of the Calculus of Several Variables I
   MATB61H3 Linear Programming and Optimization
   STAB52H3 Introduction to Probability
   STAB57H3 Introduction to Statistics

4. C-level courses (1.5 credits)
   CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics
   STAC62H3 Stochastic Processes
   STAC67H3 Regression Analysis

5. D-level courses (0.5 credit)
   STAD37H3 Multivariate Analysis

A. Quantitative Finance Stream
This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)
   MGEA02H3/(ECMA04H3) Introduction to Microeconomics: A Mathematical Approach

7. Additional B-level courses (2.0 credits)
   ACTB40H3 Fundamentals of Investment and Credit
   MATB42H3 Techniques of Calculus of Several Variables II
   MATB44H3 Differential Equations I
   STAB41H3 Financial Derivatives

8. Additional Upper Level courses (3.0 credits)
   MATC46H3 Differential Equations II
   STAC70H3 Statistics and Finance I
   STAD57H3 Time Series Analysis
   STAD70H3 Statistics and Finance II

Two of:
   APM462H1 Nonlinear Optimization
   CSCC11H3 Introduction to Machine Learning and Data Mining
B. Statistical Machine Learning and Data Mining Stream
This stream requires a total of 26 courses (13.0 credits). In addition to the core requirements, 11 other courses (5.5 credits) must be taken satisfying all of the following requirements:

6. Additional A-level courses (0.5 credit)
   [CSCA67H3 or MATA67H3 Discrete Mathematics]

7. Additional B-level courses (1.0 credit)
   Two of:
   - CSCB07H3 Software Design
   - CSCB20H3 Introduction to Databases and Web Applications
   - CSCB36H3 Introduction to the Theory of Computation
   - CSCB63H3 Design and Analysis of Data Structures

8. Additional Upper Level courses (4.0 credits)
   CSCC11H3 Introduction to Machine Learning and Data Mining
   STAC58H3 Statistical Inference
   STAD68H3 Advanced Machine Learning and Data Mining
   Five of: *
   Any C or D-level CSC, MAT or STA courses (excluding STAD29H3), three of which must be STA courses.

(*) Some of the courses on this list have prerequisites that are not included in this program; in choosing courses to satisfy this requirement, check the prerequisites carefully and plan accordingly.

SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: S. Damouras (416-208-4794) Email: sdamouras@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Program Objectives
This program combines the coursework of the Specialist Program in Statistics described above with paid work terms in public and private enterprises. It shares the goals and structure of the Specialist Program in Statistics, but complements study of the subject with considerable work experience.

Admission Requirements
Refer to the Program Admission requirements for the Specialist Program in Statistics described above and the Co-operative Programs section in this Calendar. Students entering this program after first year must have a CGPA of at least 2.75.

Program Requirements
To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

Work Term Requirements
Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.

Course Requirements
The course requirements of the Co-operative Specialist Program in Statistics are identical to those of the Specialist Program in Statistics described above.
SPECIALIST PROGRAM IN MATHEMATICS (SCIENCE)

This program has a Statistics stream. For more information, see the Mathematics section of this Calendar.

MAJOR PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon  Email: mahinda@utsc.utoronto.ca

Recommended Writing Course: Students are urged to take a course from the following list of courses by the end of their second year.

Program Requirements
This program requires 8.0 full credits.

1. A-level courses
   MATA23H3 Linear Algebra I
   [CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences]
   [MATA30H3 Calculus I for Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences*]
   [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences*]
   *The sequence MATA31H3 and MATA37H3 is recommended. MATA31H3 is the pre-requisite for MATA37H3.

2. B-level courses
   MATB24H3 Linear Algebra II
   MATB41H3 Techniques of the Calculus of Several Variables I
   MATB42H3 Techniques of the Calculus of Several Variables II
   STAB52H3 An Introduction to Probability*
   STAB57H3 An Introduction to Statistics*

Upper-level courses
STAC67H3 Regression Analysis*
Four of:
   any C- or D-level (or 300-400 on St. George) STA courses, except STAD29H3
   Two of:
      ACTB40H3, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses
   * STAB52H3, STAB57H3, STAC67H3 - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor.

MAJOR (CO-OPERATIVE) PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon  Email: mahinda@utsc.utoronto.ca
Co-op Contact: askcoop@utsc.utoronto.ca

Program Objectives
This program combines the coursework of the Major Program in Statistics described above with paid work terms in public and private enterprises. It shares the goals and structure of the Major Program in Statistics, but complements study of the subject with considerable work experience.

Admission Requirements
Refer to the Program Admission requirements for the Major Program in Statistics described above and the Co-operative Programs section in this Calendar. Students entering this program after first year must have a CGPA of at least 2.75.

Program Requirements
To remain in the program, a student must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, a student must meet the work term and course requirements described below.

Work Term Requirements
Students must successfully complete three work terms, at most one of which can be during the summer. In addition, prior to their first work term, students must successfully complete the Arts & Science Co-op Work Term Preparation Activities. These include networking sessions, speaker panels and industry tours along with seminars covering resumes, cover letters, job interviews and work term expectations.

Course Requirements
The course requirements of the Co-operative Major Program in Statistics are identical to those of the Major Program in Statistics described above.
MINOR PROGRAM IN APPLIED STATISTICS (SCIENCE)

Supervisor of Studies: K. Butler  Email: butler@utsc.utoronto.ca

Program Requirements
This program requires a total of 4.0 credits as follows:

One of (0.5 credit):
CSCA08H3 Introduction to Computer Science I
CSCA20H3 Introduction to Programming

One of (0.5 credit):
STAB22H3 Statistics I
MGEB11H3/(ECMB11H3) Quantitative Methods in Economics I
PSYB07H3 Data Analysis in Psychology

One of (0.5 credit):
STAB27H3 Statistics II
MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II
PSYC08H3 Advanced Data Analysis in Psychology

All of the following (1.5 credits):
STAC32H3 Applications of Statistical Methods
STAC50H3 Data Collection
STAD29H3 Statistics for Life and Social Scientists

Two (1.0 credit) of the following courses:
[one of the following: any ACT, CSC, MAT, STA course]
[one of the following: MGEA02H3/(ECMA04H3), MGEA06H3/(ECMA06H3), MGEB02H3/(ECMB02H3), MGEB06H3/(ECMB06H3), MGEC11H3
/(ECMC11H3), MGED11H3/(ECMD10H3), MGED70H3/(ECMD70H3)]
GGRB02H3
HLTB15H3
[one of the following: MGFB10H3/(MGTB09H3), MGFC30H3/(MGTC71H3), MGOC10H3/(MGTC74H3), MGMC01H3/(MGTD07H3), MGMD01H3
/(MGTD30H3)]
POLC11H3

MINOR PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon  Email: mahinda@utsc.utoronto.ca

Program Requirements
This program requires 4.0 full credits.

First Year (2.0 credits)
[CSCA08H3 Introduction to Computer Science I or CSCA20H3 Computer Science for the Sciences]  
MATA23H3 Linear Algebra I
[MATA30H3 Calculus I for Physical Sciences or MATA31H3 Calculus I for Mathematical Sciences] and
[MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences.]

Notes:
1. The sequence MATA31H3 and MATA37H3 is recommended.
2. MATA31H3 is the pre-requisite for MATA37H3.

Second Year (1.0 credit)
STAB52H3 An Introduction to Probability
STAB57H3 An Introduction to Statistics

Third and Fourth Year (1.0 credit)
STAC67H3 Regression Analysis

In addition 0.5 credits must be chosen from any C- or D-level STA course but not STAD29H3.

Statistics Courses

ACTB40H3 Fundamentals of Investment and Credit
This course is concerned with the concept of financial interest. Topics covered include: interest, discount and present values, as applied to determine prices and values of annuities, mortgages, bonds, equities, loan repayment schedules and consumer finance payments in general,
yields on investments given the costs on investments.
Prerequisite: MAT3A0H3 or MAT3A1H3 or MAT3A2H3
Exclusion: ACTB40H3, MGF1B0H3/(MGTC09H3), (MGTC03H3)
Breadth Requirement: Quantitative Reasoning
NOTE: Students enrolled in or planning to enrol in any of the B.B.A.
programs are strongly urged not to take ACTB40H3 because
ACTB40H3 is an exclusion for
MGFB10H3/(MGTC09H3)/(MGTC03H3), a required course in the
B.B.A. degree. Students in any of the B.B.A programs will thus be
forced to complete MGFB10H3/(MGTC09H3)/(MGTC03H3), even if
they have credit for ACTB40H3, but will only be permitted to count
one of ACTB40H3 and MGFB10H3/(MGTC09H3)/(MGTC03H3)
towards the 20 credits required to graduate.

**STAB22H3 Statistics I**
This course is a basic introduction to statistical reasoning and
methodology, with a minimal amount of mathematics and calculation.
The course covers descriptive statistics, populations, sampling,
confidence intervals, tests of significance, correlation, regression and
experimental design. A computer package is used for calculations.
Exclusion: ANTC35H3, MGE11H3/(ECMB11H3), (POL11H3),
PSYB07H3, (SOCB06H3), STAB23H3, STAB52H3, STAB57H3,
STA220H, STA250H
Breadth Requirement: Quantitative Reasoning

**STAB23H3 Introduction to Statistics for the Social Sciences**
This course covers the basic concepts of statistics and the statistical
methods most commonly used in the social sciences. The first half
introduces descriptive statistics and the inferential statistical methods.
The second half introduces bivariate and multivariate methods,
emphasizing contingency table analysis and Chi-square test, regression,
and analysis of variance.
Exclusion: ANTC35H3, MGE11H3/(ECMB11H3), (POL11H3),
PSYB07H3, (SOCB06H3), STAB23H3, STAB52H3, STAB57H3,
STA220H, STA250H
Breadth Requirement: Quantitative Reasoning

**STAB27H3 Statistics II**
This course follows STAB22H3, and gives an introduction to regression
and analysis of variance techniques as they are used in practice. The
emphasis is on the use of software to perform the calculations and the
interpretation of output from the software. The course reviews statistical
inference, then treats simple and multiple regression and the analysis of
some standard experimental designs.
Prerequisite: STAB22H3
Exclusion: MGE12H3/(ECMB12H3), STAB57H3, STA221H, STA250H
Breadth Requirement: Quantitative Reasoning

**STAB41H3 Financial Derivatives**
A study of the most important types of financial derivatives, including
futures, futures, swaps and options (European, American, exotic, etc).
The course illustrates their properties and applications through examples,
and introduces the theory of derivatives pricing with the use of the no-
arbitrage principle and binomial tree models.
Prerequisite: ACTB40H3
Exclusion: MGFC30H3/(MGTC71H3)
Breadth Requirement: Quantitative Reasoning

**STAB52H3 An Introduction to Probability**
A mathematical treatment of probability. The topics covered include: the
probability model, density and distribution functions, computer generation
of random variables, conditional probability, expectation, sampling
distributions, weak law of large numbers, central limit theorem, Monte
Carlo methods, Markov chains, Poisson processes, simulation,
applications. A computer package will be used.
Prerequisite: MAT33H3 or MAT3A6H3 or MAT37H3
Exclusion: PSYB07H3, STA222H, STA107H, STA257H
Breadth Requirement: Quantitative Reasoning

**STAB57H3 An Introduction to Statistics**
A mathematical treatment of the theory of statistics. The topics covered
include: the statistical model, data collection, descriptive statistics,
estimation, confidence intervals and P-values, likelihood inference
methods, distribution-free methods, bookstrapping, Bayesian methods,
relationship among variables, contingency tables, regression, ANOVA,
logistic regression, applications. A computer package will be used.
Prerequisite: STAB52H3
Exclusion: STA261H
Breadth Requirement: Quantitative Reasoning

**STAC32H3 Applications of Statistical Methods**
A case-study based course, aimed at developing 'students' applied
statistical skills beyond the basic techniques. Students will be required to
write statistical reports. Statistical software, such as SAS and R, will be
taught and used for all statistical analyses.
Prerequisite: STAB27H3 or STAB57H3 or MGE12H3/(ECMB12H3) or
PSYC08H3
Breadth Requirement: Quantitative Reasoning

**STAC50H3 Data Collection**
The principles of proper collection of data for statistical analysis, and
techniques to adjust statistical analyses where these principles cannot be
implemented. Topics include: relationships among variables, causal
relationships, confounding, random sampling, experimental designs,
observational studies, experiments, causal inference, meta-analysis.
Statistical analyses using SAS or R.
Prerequisite: STAB27H3 or STAB57H3 or MGE12H3/(ECMB12H3) or
PSYC08H3
Exclusion: STA304H
Breadth Requirement: Quantitative Reasoning

**STAC51H3 Categorical Data Analysis**
Statistical models for categorical data. Contingency tables, generalized
linear models, logistic regression, multinomial responses, logit models for
nominal responses, log-linear models for two-way tables, three-way
tables and higher dimensions, models for matched pairs, repeated
categorical response data, correlated and clustered responses. Statistical
analyses using SAS or R.
Prerequisite: STAB27H3 or STAB57H3 or MGE12H3/(ECMB12H3) or
PSYC08H3
Breadth Requirement: Quantitative Reasoning

**STAC55H3 Statistical Inference**
Principles of statistical reasoning and theories of statistical analysis.
Topics include: statistical models, likelihood theory, repeated sampling
theories of inference, prior elicitation, Bayesian theories of inference,
decision theory, asymptotic theory, model checking, and checking for
prior-data conflict. Advantages and disadvantages of the different
theories.
Prerequisite: STAB57H3 and STAC62H3
Exclusion: STA352Y, STA422H
Statistics

Breadth Requirement: Quantitative Reasoning

STAC62H3 Stochastic Processes
This course continues the development of probability theory begun in STAB52H3. Topics covered include finite dimensional distributions and the existence theorem, discrete time Markov chains, discrete time martingales, the multivariate normal distribution, Gaussian processes and Brownian motion.
Prerequisite: MATB41H3 and STAB52H3
Breadth Requirement: Quantitative Reasoning

STAC63H3 Probability Models
This course continues the development of probability theory begun in STAC62H3. Probability models covered include branching processes, birth and death processes, renewal processes, Poisson processes, queuing theory, random walks and Brownian motion.
Prerequisite: STAC62H3
Breadth Requirement: Quantitative Reasoning

STAC67H3 Regression Analysis
Prerequisite: STAB57H3
Exclusion: STA302H
Breadth Requirement: Quantitative Reasoning

STAC70H3 Statistics and Finance I
A mathematical treatment of option pricing. Building on Brownian motion, the course introduces stochastic integrals and Itô calculus, which are used to develop the Black-Scholes framework for option pricing. The theory is extended to pricing general derivatives and is illustrated through applications to risk management.
Prerequisite: [STAB41H3 or MGFC30H3/(MGTC71H3)] and STAC62H3
Corequisite: MATC46H3
Exclusion: APM466H, ACT460H
Breadth Requirement: Quantitative Reasoning

STAD57H3 Time Series Analysis
An overview of methods and problems in the analysis of time series data. Topics covered include descriptive methods, filtering and smoothing time series, identification and estimation of times series models, forecasting, seasonal adjustment, spectral estimation and GARCH models for volatility.
Prerequisite: STAC62H3 and STAC67H3
Exclusion: STA457H, (STAC57H3)
Breadth Requirement: Quantitative Reasoning

STAD68H3 Advanced Machine Learning and Data Mining
Statistical aspects of supervised learning: regression, regularization methods, parametric and nonparametric classification methods, including Gaussian processes for regression and support vector machines for classification, model averaging, model selection, and mixture models for unsupervised learning. Some advanced methods will include Bayesian networks and graphical models.
Prerequisite: CSCC11H3 and STAC58H3 and STAC67H3
Breadth Requirement: Quantitative Reasoning

STAD70H3 Statistics and Finance II
A survey of statistical techniques used in finance. Topics include mean-variance and multi-factor analysis, simulation methods for option pricing, Value-at-Risk and related risk-management methods, and statistical arbitrage. A computer package will be used to illustrate the techniques using real financial data.
Prerequisite: STAC70H3 and STAD37H3
Corequisite: STAD57H3
Breadth Requirement: Quantitative Reasoning

STAD92H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAD93H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAD94H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAC32H3 Statistics for Life & Social Scientists
The course discusses many advanced statistical methods used in the life and social sciences. Emphasis is on learning how to become a critical interpreter of these methodologies while keeping mathematical requirements low. Topics covered include multiple regression, logistic regression, discriminant and cluster analysis, principal components and factor analysis.
Prerequisite: STAC32H3
Exclusion: All C-level/300-level and D-level/400-level STA courses or equivalents except STAC32H3, STAC50H3 and STA322H.
Breadth Requirement: Quantitative Reasoning

STAD37H3 Multivariate Analysis
Prerequisite: STAC67H3
Exclusion: STA437H, (STAC42H3)
Breadth Requirement: Quantitative Reasoning

STAC70H3 Statistics and Finance I
A mathematical treatment of option pricing. Building on Brownian motion, the course introduces stochastic integrals and Itô calculus, which are used to develop the Black-Scholes framework for option pricing. The theory is extended to pricing general derivatives and is illustrated through applications to risk management.
Prerequisite: [STAB41H3 or MGFC30H3/(MGTC71H3)] and STAC62H3
Corequisite: MATC46H3
Exclusion: APM466H, ACT460H
Breadth Requirement: Quantitative Reasoning

STAD57H3 Time Series Analysis
An overview of methods and problems in the analysis of time series data. Topics covered include descriptive methods, filtering and smoothing time series, identification and estimation of times series models, forecasting, seasonal adjustment, spectral estimation and GARCH models for volatility.
Prerequisite: STAC62H3 and STAC67H3
Exclusion: STA457H, (STAC57H3)
Breadth Requirement: Quantitative Reasoning

STAD68H3 Advanced Machine Learning and Data Mining
Statistical aspects of supervised learning: regression, regularization methods, parametric and nonparametric classification methods, including Gaussian processes for regression and support vector machines for classification, model averaging, model selection, and mixture models for unsupervised learning. Some advanced methods will include Bayesian networks and graphical models.
Prerequisite: CSCC11H3 and STAC58H3 and STAC67H3
Breadth Requirement: Quantitative Reasoning

STAD70H3 Statistics and Finance II
A survey of statistical techniques used in finance. Topics include mean-variance and multi-factor analysis, simulation methods for option pricing, Value-at-Risk and related risk-management methods, and statistical arbitrage. A computer package will be used to illustrate the techniques using real financial data.
Prerequisite: STAC70H3 and STAD37H3
Corequisite: STAD57H3
Breadth Requirement: Quantitative Reasoning

STAD92H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAD93H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAD94H3 Readings in Statistics
This course is offered by arrangement with a statistics faculty member. This course may be taken in any session and must be completed by the last day of classes in the session in which it is taken.
Prerequisite: Students must obtain consent from the Supervisor of Studies before registering for this course.
Breadth Requirement: Quantitative Reasoning

STAC32H3 Statistics for Life & Social Scientists
The course discusses many advanced statistical methods used in the life and social sciences. Emphasis is on learning how to become a critical interpreter of these methodologies while keeping mathematical requirements low. Topics covered include multiple regression, logistic regression, discriminant and cluster analysis, principal components and factor analysis.
Prerequisite: STAC32H3
Exclusion: All C-level/300-level and D-level/400-level STA courses or equivalents except STAC32H3, STAC50H3 and STA322H.
Breadth Requirement: Quantitative Reasoning

STAD37H3 Multivariate Analysis
Prerequisite: STAC67H3
Exclusion: STA437H, (STAC42H3)
Breadth Requirement: Quantitative Reasoning
Studio

Program Director: W. Kwan  Email: wkwan@utsc.utoronto.ca

The Studio program at UTSC offers hands-on courses in drawing, painting, sculpture, photography, performance art, video, new media, animation, and conceptual practices. Students can also take specialized courses in digital imaging, sound art, or thematic courses that explore such things as the relationships between art and globalization, or art and politics, or time-based art practices. UTSC Studio students develop a combination of technical, theoretical, conceptual and critical skills that enable them to express and communicate their ideas confidently in a variety of visual languages. Students explore art as a tool for examining and intervening in visual culture, to consider the role of creativity in shaping communities locally and globally.

Our students are encouraged to engage with the diversity of contemporary art by examining art-making from aesthetic, intellectual, social, and political perspectives. They are exposed to current positions in contemporary art theory, criticism, and curation and study the history of art from various cultural and historical viewpoints. The wide range of artistic experiences offered by the UTSC Studio program provides a rigorous general visual arts education for students interested in careers in the cultural and design sectors. Studio also offers focused preparation for students interested in pursuing advanced visual art study at the graduate level.

The Studio program is connected to the department of Arts, Culture and Media, which offers students an interdisciplinary framework for analyzing the ideas and theories connecting the arts, and encourages students to explore the related fields of literature, history, anthropology, and other areas of Humanities and Social Sciences.

Guidelines for 1st year course selection
VPSA62H3 Foundation Studies in Studio, which covers basic media and concepts through practice and discussion, must be taken with its co-requisite VPSA63H3 But Why is it Art? before advancing to other studio courses.

Students will be expected to purchase the materials necessary for each course. An estimate of the costs is available from the instructor.

The Studio Study Guide is available at: www.utsc.utoronto.ca/~humdiv/prg_st.html

For the Specialist program in Art and Culture, Studio stream visit:
http://www.utsc.utoronto.ca/~registrar/calendars/calendar/Visual_and_Performing_Arts.html#SPECIALIST_PROGRAM_IN_ART_AND_CULTURE_%28ARTS%29

Studio Programs

SPECIALIST PROGRAM IN STUDIO (ARTS)

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

Enrolment in the Specialist in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student’s overall GPA and grades in VPSA62H3 and VPSA63H3. For students applying after 8-10 credits, admission will be based on the overall GPA and grades in VPS courses taken.

This program requires the completion of 14.0 credits, including 4 full credits at the C- or D-level of which at least 1.0 credit must be at the D-level.

1. (3.5 credits)
   ACM801H3 Critical Reading, Thinking and Writing for ACM Programs
   MDSA01H3 Introduction to Media Studies
   VPSA62H3 Foundation Studies in Studio
   VPSA63H3 But Why is it Art?
   VPSA70H3 Drawing I
   VPSB73H3 Curatorial Perspectives I
   VPSB74H3 Drawing II

2. (0.5 credit)

   One of the following:
   VPSC66H3 Theory and Practice: Two Dimensional Work
   VPSC68H3 Theory and Practice: Time-Based Work
   VPSC69H3 Theory and Practice: Art in a Globalizing World
   VPSC70H3 Theory and Practice: New Media in Studio

3. (6.0 credits)

   6.0 additional credits from VPS of which at least 1.5 credits should be at the C- level and 1.0 credit at the D level.

4. (3.0 credits)

   VPHA46H3 Ways of Seeing: Introduction to Art Histories
2.5 additional credits in art history of which 1 full credit should be at the C-level.

5. (1.0 credit)
1.0 credit from the following:
ENGB12H3 Life Writing
ENGB70H3 Intro to Cinema
ENGB75H3 Cinema and Modernity I
GASC42H3 Film and Popular Culture in South Asia
MDSA02H3 History of Media
MDSB05H3 Media and Globalization
MDSB61H3 Mapping New Media
MDSB62H3 Visual Culture and Communication

MAJOR PROGRAM IN STUDIO (ARTS)

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

Enrolment in the Major in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3.

Program Requirements
Students must complete eight full credits including:
1. VPSA62H3 Foundation Studies in Studio
   VPSA63H3 But Why Is It Art?
2. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs
3. VPHA46H3 Ways of Seeing: Introduction to Art Histories
4. VPSA70H3 Drawing I
   VPSB74H3 Drawing II
5. At least one-half credit from:
   VPSC66H3 Theory and Practice: Two-Dimensional Work
   VPSC68H3 Theory and Practice: Time-Based Work
   VPSC69H3 Theory and Practice: Art in a Globalizing World
   VPSC70H3 Theory and Practice: New Media in Studio
6. 3.5 additional credits from courses in VPS, at least one full credit of which must be at the C-level.
7. One full credit at the D-level in VPS

MINOR PROGRAM IN STUDIO (ARTS)

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

Enrolment in the Minor in Studio is limited. Students must apply to enter the program after completing four credits including VPSA62H3 and VPSA63H3. Decisions are made on program admissions only twice a year, in May and August, and are based on student requests submitted to the registrar through ROSI. Admission is determined on the basis of a student's overall GPA and grades in VPSA62H3 and VPSA63H3.

Program Requirements:
Students are required to complete a total of four full credits as follows:
1. VPSA62H3 Foundation Studies in Studio
2. VPSA63H3 But Why is it Art?
3. VPHA46H3 Ways of Seeing: Introduction to Art Histories
4. VPSA70H3 Drawing I
5. 1.0 credits at the B-level in VPS
6. 0.5 credits from the following:
   VPSC66H3 Theory and Practice: Two-Dimensional Work
   VPSC68H3 Theory and Practice: Time-Based Work
   VPSC69H3 Theory and Practice: Art in a Globalizing World
   VPSC70H3 Theory and Practice: New Media in Studio
7. An additional 0.5 credits at the C-level in VPS

Studio Courses
VPSA61H3 Painting I
An investigation of the basic elements and concepts of painting through experimentation in scale and content.
Corequisite: VPSA62H3 and VPSA63H3
Exclusion: (VPSB61H3), VIS201H, FAS145H
Enrolment Limits: 20 per section
Breadth Requirement: Arts, Literature & Language

VPSA62H3 Foundation Studies in Studio
An introduction to the importance of content and context in the making of contemporary art.
Corequisite: VPSA63H3
Exclusion: VIS130H, JAV130H
Enrolment Limits: 20 per section
Breadth Requirement: Arts, Literature & Language

VPSA63H3 But Why Is It Art?
This introductory seminar examines the key themes, concepts, and questions that affect the practice of contemporary art. We will look at specific cases in the development of art and culture since 1900 to understand why and how contemporary art can exist as such a wide-ranging set of forms, media and approaches.
Exclusion: VIS120H, JAV120H, VST101H
Breadth Requirement: History, Philosophy & Cultural Studies

VPSA70H3 Drawing I
An investigation of the various approaches to drawing, including working from the figure and working with ideas.
Corequisite: VPSA62H3 and VPSA63H3
Exclusion: (VPSB70H3), VIS205H, FAS143H
Enrolment Limits: 20 per section
Breadth Requirement: Arts, Literature & Language

VPSA71H3 Introduction to Sculpture
This course introduces students to the use of three-dimensional materials and processes for creating sculptural objects. Traditional and non-traditional sculptural methodologies and concepts will be explored.
Corequisite: VPSA62H3 and VPSA63H3
Exclusion: FAS248H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSA73H3 Video I
An introduction to the basic principles of video shooting and editing as well as an investigation into different conceptual strategies of video art. The course will also provide an introduction to the history of video art.
Corequisite: VPSA62H3 and VPSA63H3
Exclusion: VIS202H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSA74H3 Digital Studio I
This hands-on, project-based class will investigate fundamental digital concepts common to photography, animation, and digital publishing practices. Students will learn general image processing, composing, colour management, chroma key, and typographic tools for both on-line and print-based projects. These will be taught through Adobe Creative Suite software on Apple computers.
Corequisite: VPSA62H3 and VPSA63H3
Exclusion: VIS218H, FAS147H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSB62H3 Painting II
A continuation of Painting I with an emphasis on images and concepts developed by individual students.
Prerequisite: VPSA61H3 or (VPSB61H3)
Exclusion: VIS220H, FAS245H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSB63H3 Sculpture and the Everyday
Sculpture and the Everyday introduces students to contemporary sculptural approaches that include the use of everyday found materials and sculptural interventions in public spaces. Students will learn new techniques for installing and presenting artworks inside and outside of the gallery. Previous experience in sculpture is not required for this course.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Exclusion: VIS204H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSB67H3 Photo I
An introduction to fundamental photographic concepts including depth, focus, stopped time, lighting and photographic composition in contrast to similar fundamental concerns in drawing and painting. A practical and historical discourse on the primary conceptual streams in photography including various documentary traditions, staged photographs and aesthetic approaches from photographic modernism to postmodernism.
Prerequisite: VPSA74H4
Exclusion: (VPSB72H3), VIS218H, FAS147H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSB71H3 Artist Multiples
Artist multiples are small, limited edition artworks that include sculptures, artist books, mass-produced ephemera such as posters, postcards and small objects. Students will explore the production and history of 2D and 3D works using a variety of media and approaches. This course is about both making and concepts.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Exclusion: VIS321H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSB72H3 Digital Publishing
A course for students interested in designing and publishing artworks using digital tools. The emphasis will be on short-run printed catalogues, along with some exploration of e-books and blogs. Lessons will identify common editorial and image preparation concerns while introducing software for assembling images, videos, sounds, graphics, and texts into coherent and intelligently-designed digital publications. Creative solutions are expected.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Exclusion: VIS328H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language
**VPSB73H3 Curatorial Perspectives I**
This course is designed to offer students direct encounters with artists and curators through studio and gallery visits. Field encounters, written assignments, readings and research focus on contemporary art and curatorial practices. The course will provide skills in composing critical views, artist statements, and writing proposals for art projects.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]] or [enrolment in the Minor in Curatorial Studies]
Exclusion: VIS320H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB74H3 Drawing II**
A continuation of VPSA70H3 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.
Prerequisite: VPSA62H3 and VPSA63H3 and VPSA70H3
Exclusion: VIS211H, FAS243H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**VPSB75H3 Photo II**
A studio course in digital photography as it relates to the critical investigation of contemporary photo-based art.
Prerequisite: VPSA67H3
Exclusion: FAS247H, VIS318H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB76H3 Video II**
Video II builds on skills developed in Video I and explores advanced video techniques including chroma key, using grip and mounts, sound design for video and installation techniques involving projection and digital screens. Students will examine current issues in moving image and media through screenings and projects.
Prerequisite: VPSA73H3
Exclusion: VIS302H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB77H3 Performance Art**
This course covers the history and practice of performance art. Students will employ contemporary performance strategies such as duration, ritual, repetition, intervention, tableau vivant, endurance and excess of materials in their projects. We will also study the relationship of performance to other art disciplines and practices such as theatre and sculpture.
Prerequisite: VPSA62H3 and VPSA63H3
Exclusion: VIS208H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB80H3 Digital Studio II**
An in-depth investigation of digital imaging technologies for serious studio artists and new media designers. Emphasis is placed on advanced image manipulation, seamless collage, invisible retouching and quality control techniques for fine art production. Project themes will be drawn from a critical analysis of contemporary painting and photo-based art.
Prerequisite: VPSA74H3
Exclusion: FAS247H, VIS318H
Recommended Preparation: VPSB67H3
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**VPSB83H3 Art and Activism**
This course will explore contemporary artistic practices that blur the boundary between art and activism. We will examine how artists address political issues and the techniques they use to reach different types of audiences. Students will do research and develop projects that address specific local issues and wider social concerns.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Exclusion: VIS307H, VIS310H
Enrolment Limits: 20
Breadth Requirement: Social & Behavioural Sciences

**VPSB85H3 Text as Image/Language as Art**
An elementary study of the typographic arts will inform presentation strategies, but the investigation of critical cultural discourse through language as visual art will form the most important content of this course. How do visual artists employ words in their art?
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-Level in Studio courses]
Exclusion: VIS307H, VIS310H
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**VPSB86H3 Sculpture and Technology**
Students will be introduced to the principles and practicalities of working with the concept of change as it relates to three dimensional artwork. Students will use both traditional and non-traditional materials in combination with simple technologies, including motors, switches, LEDs, and introductory circuits.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in Studio courses]
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB87H3 Documentary Photography**
Photography has a rich tradition both as an art form and as a documentary practice. Each of these has engendered its own technique, aesthetic and cultural context. This course is designed to introduce students to the documentary branch of photography through focused, personal, photo-journalistic projects accomplished outside of the studio.
Prerequisite: VPSB67H3
Recommended Preparation: VPSB75H3
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

**VPSB88H3 Sound Art**
Students will be introduced to sound as a medium for art making. Listening, recording, mapping, editing, and contextualizing sounds will be the focus of this course. Sound investigations will be explored within both contemporary art and experimental sound/music contexts.
Prerequisite: [VPSA62H3 and VPSA63H3] and [0.5 credit at the A-level in VPS courses]
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

**VPSB89H3 Digital Animation I**
A non-traditional course in the digital production of non-analog, two-dimensional animation through the use of computer-based drawing, painting, photography and collage. Students will learn design strategies, experimental story lines, sound mixing, and video transitions to add pace, rhythm, and movement to time based, digital art projects.
Prerequisite: VPSA62H3 and VPSA63H3 and VPSA74H3
Recommended Preparation: VPSA70H3
VPSC04H3 “Live!”
“Live!” investigates interdisciplinary modes of contemporary performance. Within a studio context, this course serves as an advanced exploration of 21st century Live Art. This interactive course reviews the dynamics of time, space, and existence, and asks fundamental questions about the body and performance.
Prerequisite: [VPHA46H3 and VPSB77H3] and [0.5 credit at the B-level in Studio or TAPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: (VPDC06H3), (VPSC57H3), (VPAC04H3)
Enrolment Limits: 12
Breadth Requirement: Arts, Literature & Language

VPSC51H3 Curatorial Perspectives II
This course focuses on the finer details of curating and contemporary art. Students will delve into the work of selected artists and curators with an emphasis on the conceptual and philosophical underpinnings of their projects. Term work will lead to a professionally curated exhibition organized by students.
Prerequisite: [VPHA46H3 and VPSB73H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC52H3 Documentary Video
This course is designed to introduce students to documentary video approaches in video art. Students will gain insight into the history and development of the experimental documentary genre through screenings, readings, and field trips. The course will provide students with the opportunity to research, develop, and produce a short documentary project.
Prerequisite: VPHA46H3 and VPSB76H3; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSC53H3 Kinetic Sculpture
Students will produce art projects using mechanical principles to create sculptural forms that change over time. Students will be encouraged to use altered machines, simple electronic components and a wide range of materials.
Prerequisite: [VPHA46H3 and VPSB86H3] and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: (VPSB64H3)
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC54H3 Painting III
An advanced course for students who are able to pursue individual projects in painting, with a focus on contemporary practice and theory.
Prerequisite: [VPHA46H3 and VPSB62H3] and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS301H, FAS345Y
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC55H3 Drawing III
An advanced course for students who are able to pursue individual projects dealing with the complex relationships between drawing and other art practices like installation, painting and mixed media.
Prerequisite: [VPHA46H3 and VPSB74H3]; and [0.5 credit at the B-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS305H, VIS308H, FAS343Y
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSC56H3 Studio Practice
A supervised course focused specifically on the development of the student's work from initial concept through to the final presentation. Students may work in their choice of media with the prior written permission of the instructor.
Prerequisite: VPHA46H3 and [3.0 credits in VPS courses including at least 1.0 credit at the B-level]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS311H, VIS326
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC58H3 Photo III
Focusing on both theory and practice, this is a portfolio-based course aimed at the development of idiosyncratic photographic styles and subject matter. Printing and presentation will form an important part of this portfolio's development. Students will research international networks, publications and institutions devoted to photographic discourse.
Prerequisite: VPHA46H3 and VPSB80H3 and VPSB75H3; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS318H, FAS347Y
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC59H3 Theory and Practice: Three-Dimensional Work
An exploration of ideas and practice with an emphasis on three-dimensional work.
Prerequisite: VPHA46H3 and [1.0 credit at the B-level in Studio courses dealing with three dimensions]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Corequisite: VPS75H3, VIS306H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC66H3 Theory and Practice: Two-Dimensional Work
An exploration of ideas and practice with an emphasis on two-dimensional work, including digital imaging.
Prerequisite: VPHA46H3 and [1.0 credit at the B-level in VPS courses dealing with two dimensions]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS211H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language
VPSC68H3 Theory and Practice: Time-Based Work
An exploration of ideas and practice with an emphasis on time-based media: performance, video, audio, time-based sculpture and installation.
Prerequisite: VPHA46H3 and [1.0 credit at the B-level in VPS courses dealing with time-based media]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS303H, FAS349H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC69H3 Theory and Practice: Art in a Globalizing World
This course will focus on the influence of global visual culture on contemporary art practices; exploring how artists respond to orientalism, colonial histories, migration, media, tourism, and the international art world. The culturally diverse backgrounds of students and their understanding of global media will be starting points for studio projects.
Prerequisite: VPHA46H3 and [1.0 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS325H
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies

VPSC70H3 Theory and Practice: New Media in Studio
Information technologies are radically and rapidly transforming our culture. Networking, robotics, GPS, ubiquitous computing, data mining, rfid, biotech, surveillance, sound installation, digital image processing and interactive display are all offering new opportunities for the artist as well as new critical issues to address. Students will create affordable projects that address these issues.
Prerequisite: VPHA46H3; and [1.0 credit from VPSB76H3 or VPSB80H3 or VPSB86H3 or VPSB88H3 or VPSB89H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC71H3 Performing with Cameras
This course investigates the relationship of the body to the camera. Using both still and video cameras and live performance students will create works that unite the performative and the mediated image. The course will cover how the body is framed and represented in contemporary art, advertising and the media.
Prerequisite: VPHA46H3 and [1.0 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Recommended Preparation: VPSB77H3 or VPSB67H3 or VPSB76H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC73H3 Interdisciplinary Drawing Concepts
Interdisciplinary Drawing Concepts will extend drawing into a range of other media, allowing students to explore the sculptural, temporal and performative potential of mark-making.
Prerequisite: [VPHA46H3 and VPSB74H3] and [0.5 credit at the B-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Exclusion: VIS308H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC75H3 Advanced Sculpture
Advanced Sculpture will provide students with an opportunity for a deeper investigation into various materials and fabrication techniques. This course will focus on the theory and practice of object making through studio assignments that develop a critical and technical literacy towards both traditional and non-traditional sculpture materials.
Prerequisite: VPHA46H3 and [VPSB63H3 or VPSB73H3 or VPSB86H3]; and an additional 0.5 credit at the B-level in Studio; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language

VPSC89H3 Digital Animation II
A project based course, building upon concepts developed in VPSB89H3 Introduction to Digital Animation. Students will refine their control of sound, movement, and image quality. This course will also introduce three-dimensional wire frame and ray-tracing techniques for constructing convincing 3-D animated objects and scenes as they apply to contemporary artistic practices.
Prerequisite: VPHA46H3 and VPSB89H3; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language

VPSCD55H3 Advanced Special Topics in Studio
Selected topics for intensive and focused practical and theoretical study in one area of specialization in studio. Topics will change from session to session.
Prerequisite: 1.5 credits at the C-level in Studio courses
Enrolment Limits: 15

VPSCD56H3 Advanced Studio Practice
An advanced course for students ready to work independently on their own projects. Students will be expected to work on their projects from conception to a final exhibition in the student-run gallery. Students may work in their choice of media with the written permission of the instructor.
Prerequisite: 1.5 full credits at the C-level in Studio
Exclusion: VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Enrolment Limits: 15

VPSCD57H3 Advanced Seminar: Interdisciplinary Practice
An opportunity for students in VPS to explore aspects of contemporary inter-media practice and theory. Students will make work in their choice of media with the written permission of the instructor.
Prerequisite: 1.5 full credits at the C-level in Studio
Exclusion: VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Enrolment Limits: 15

VPSCD58H3 Advanced Seminar: Two-Dimensional Work
Students who have developed strong portfolios in painting, drawing or printmaking and intend to pursue professional exhibition careers will continue their investigations into two-dimensional expression and develop professional quality projects with thorough promotional strategies.
Prerequisite: 1.5 full credits at the C-level in Studio.
Exclusion: VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H
Enrolment Limits: 15

**VPSD63H3 Independent Studies in Studio: Advanced Level**
This option is available in rare and exceptional circumstances to students who have demonstrated a high level of academic maturity and competence. Qualified students will have the opportunity to investigate an area of contemporary art that is of common interest to both student and supervisor.
Prerequisite: At least 15.0 credits & completion of the major in studio & written permission of the instructor in the previous session.
Exclusion: VIS401H, VIS402H, VIS403H, VIS404H
Teaching and Learning, Centre for

Faculty List

- C. Hasenkampf, B.Sc. (Loyola), M.Sc., Ph.D. (Florida State U.), Associate Professor, Tenure Stream
- N. Johnston, B.A. (Trent), M.A., Ph.D. (York), Associate Professor, Teaching Stream
- S. Kang, B.Sc., M.Sc. (Chonnam National University, S. Korea), M.Sc., Ph.D. (Toronto), Assistant Professor, Teaching Stream
- E. Khoo, B.Sc. (U. of Malaysia), M.A. (U. of Reading), Ph.D. (U. of South Queensland), Associate Professor, Teaching Stream
- S. King, B.A. (Glendon), M.A., Ph.D. (U. of Western Ontario), Associate Professor, Teaching Stream
- H.L. Meacock, B.A. (Trent), M.A. (York), Lecturer
- K. Persaud, B.Sc. (Toronto), B.Ed. (U. of Western Ontario), Ph.D. (McMaster), Associate Professor, Teaching Stream
- Z. Shahbazi, B.Sc. (Sharif University of Technology), M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream
- S. Stevenson, B.A., M.A., Ph.D. (Maryland), Lecturer

Overview

The Centre for Teaching and Learning offers three courses that focus on skill and personal development. Our A-level series is designed for English Language learners to help them bring their academic English skills to a level that matches their other strong academic skills. Our B-level experiential learning course is open to students in all disciplines who want hands-on opportunities to use and enhance their academic knowledge to help others.

Courses are just one of the ways that CTL promotes learning at UTSC. We work with faculty in the design and implementation of their courses. We also provide a range of student programs designed to help students take their academic skills to the next level and build a social network with like-minded students across the disciplines.

Our student programs support a range of student academic needs. Facilitated Study Groups are organized for many challenging courses. The Mathematics and Statistics Learning Centre is open to all students who wish to improve their quantitative reasoning skills. As well, it offers workshops and drop-in help for students in specific Mathematics and Statistics courses. The Writing and Presentation Skills Centres help students hone their writing and oral communication skills, both in the context of course assignments and in preparation for a lifetime of effective communication. The Service Learning and Outreach program connects students with on- and off-campus experiential placement opportunities. The English Language Development Centre continues our support for English Language learners with a wide array of English Language Development programming that individual appointments with writing experts, drop-in help sessions, interactive and Cafe-style game-based learning sessions, and an evolving suite of group sessions and online resources.

Collectively, CTL’s student centres provide a way for students who are serious about their skill development to interact with experts and each other in a stimulating, supportive and fun environment!

Learn more at:

- English Language Development Centre: http://utsc.utoronto.ca/eld/
- Facilitated Study Groups: http://www.utsc.utoronto.ca/ctl/facilitated-study-groups-fsg
- Mathematics and Statistics Learning Centre: http://utsc.utoronto.ca/mslc/
- Presentation Skills: http://www.utsc.utoronto.ca/ctl/presentation-skills
- Service Learning and Outreach: http://www.utsc.utoronto.ca/ctl/service-learning-outreach
- The Writing Centre: http://utsc.utoronto.ca/twc/

For Faculty, Graduate Students, Instructors, and Teaching Assistants:

- Blackboard and Educational Technology Assistance: http://www.utsc.utoronto.ca/technology/
- Faculty and Instructors: http://www.utsc.utoronto.ca/ctl/teaching-support
- Teaching Assistant Training & Graduate Student Support: http://www.utsc.utoronto.ca/ctl/grad-students
- WebOption Lecturecasting: http://weboption.utsc.utoronto.ca

Director: Clare Hasenkampf

Teaching and Learning, Centre for Courses

CTLA01H3 Foundations in Effective Academic Communication

This highly interactive course for English Language Learners who find Academic English a challenge aims to fast-track the development of critical thinking, reading, writing and oral communication skills. Through emphasizing academic writing and rapid expansion of vocabulary, students will gain practical experience with university-level academic texts and assignment expectations.

Prerequisite: No more than 10.0 credits completed. Students are required to take a diagnostic test of academic English skills to be conducted by the English Language Development Centre in advance.
of the first day of class.
Exclusion: (HUMA19H3), (LGGA19H3), (LGGA99H3), (CTLA19H3).
Enrolment Limits: 20 students per practicum
Breadth Requirement: Arts, Literature & Language
NOTE: The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course, including those students who meet the prerequisites.

CTLA02H3 Exploring Inter-Cultural Perspectives in Academic Contexts
This course develops students' language, academic and communication skills through a critical exploration of Canadian culture and academic expectations. Using audio-visual and textual media, students learn through interactive online and in-class discussions. This course aims to foster dynamic academic acculturation for international students and develop their multi-literate engagement in English.
Prerequisite: No more than 10.0 credits completed. Students are required to take a diagnostic test of their academic English skills to be conducted by the English Language Development Centre in advance of the first day of class.
Exclusion: (HUMA11H3), (LGGA11H3)
Enrolment Limits: 20
Breadth Requirement: Arts, Literature & Language
NOTE: The instructor has the authority to exclude students whose level of proficiency is unsuitable for the language learning and cultural exploration focus of the course, including those students who meet the prerequisites.

CTLB03H3 Introduction to Service Learning
In this experiential learning course, students apply discipline-specific academic concepts as they work with community partners in the service of others. Working either within the academic community or with a discipline-related off-campus community partner, students develop problem-solving, professional communication, and self-reflective learning skills.
Prerequisite: Completion of 4.0 full credits and selection of a U of T Scarborough major or specialist subject POST and acceptance of the Service Learning & Outreach application which can be accessed through the website: http://ctl.utsc.utoronto.ca/sl/. GPA and communication skills will also be considered.
Exclusion: (SCIB01H3), (SCIB02H3), (SCIB03H3)
Enrolment Limits: 40
Breadth Requirement: Social & Behavioural Sciences
Theatre and Performance Studies

Program Director: B. Freeman (416-287-7136) Email: barry.freeman@utoronto.ca

The Theatre and Performance Studies (TAPS) program provides students with opportunities to investigate all aspects of theatre and performance, from theatre's origins in antiquity to contemporary performance practices. TAPS draws together three groups: students who major or minor in theatre and performance studies, those who specialize in other aspects of arts, media and culture, and students from other programs and majors who have a casual interest in theatre and performance. To address the needs of our diverse student body we offer courses in the history of theatre and performance as well as contemporary theory-based and practical courses. Our students gain an intellectual and critical grounding in theatre and performance while also acquiring experience in the elements of theatre production as actors, directors, and technicians. Class work leads to performance and production opportunities in the Leigha Lee Browne Theatre.

Our program also benefits from ongoing connections to Toronto's vibrant arts scene. Field trips, guest lectures, workshops, and unique collaborations with working artists provide students with new knowledge, skills and exposure to working professionals in the field.

Note: In order to be admitted into the performance side of the program, students must successfully complete VPDA10H3 Introduction to Theatre.

Not all courses are offered every year. In planning their programs students are encouraged to consult the TAPS Program Director.

Guidelines for 1st year course selection
Students who intend to complete a Theatre and Performance Studies program should include ACMB01H3, VPDA10H3 and VPDA11H3 in their 1st year course selection.

The Theatre and Performance Studies Program Study Guide is available at: www.utsc.utoronto.ca/~humdiv/prg_dr.htm

Theatre and Performance Studies Programs

MAJOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 8.0 full credits as follows:

1. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

2. VPDA10H3 Introduction to Theatre
   VPDA11H3 Introduction to Performance
   VPDB01H3 Intermediate Workshop in Performance I
   VPDB02H3 Intermediate Workshop in Performance II

3. VPDB04H3 Experiencing the Live Theatre
   VPDB15H3 The Actor and the Script

4. VPDB10H3 Theatre History I: From Ritual to Renaissance
   VPDB11H3 Theatre History II: Early Modern Popular Theatre
   VPDB12H3 Theatre History III: Modern Theatre in Global Context
   VPDB13H3 Theatre in Canada

5. VPDC20H3 Special Topics in Performance

6. VPDD50H3 Advanced Seminar in Theatre and Performance

7. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.
   In fulfilling requirement #7, students may substitute one full credit from another discipline with the Program Director's written permission. The following courses are particularly recommended:
   VPSB77H3 Performance Art
   VPMC85H3 Movies, Music and Meaning
   VPMC89H3 Music and Identity
   VPMC97H3 Music, Technologies, Media
   ENGB14H3 Twentieth-Century Drama

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MINOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)

Undergraduate Advisor: Email: taps-program-supervisor@utsc.utoronto.ca

Program Requirements: Students must complete 4.0 full credits as follows:

1. ACM801H3 Critical Reading, Thinking and Writing for ACM Programs

2. VPDA10H3 Introduction to Theatre
   [VPDA11H3 Introduction to Performance or VPDA15H3 Introduction to the Fundamentals of Acting]
   and at least two of the following courses: [VPDB10H3, VPDB11H3, VPDB12H3, VPDB13H3]
   Note: Students who do not qualify for either VPDA11H3 or VPDA15H3 should take all of the following courses: VPDB10H3, VPDB11H3, VPDB12H3, VPDB13H3

3. 1.5 additional credits in VPD, one full credit of which must be at the C- or D-level.

Theatre and Performance Studies Courses

**VPDA10H3 Introduction to Theatre**
A general introduction to theatre as a social institution and a collaborative performing art. This course will survey the nature and function of the various components of the theatrical production process, providing a background for further theatre studies. The successful completion of VPDA10H3 will admit students to subsequent VPD performance courses.
Exclusion: DRM200Y, (VPDA01H3), (VPDA02H3)
Enrolment Limits: 80
Breadth Requirement: Arts, Literature & Language

**VPDA11H3 Introduction to Performance**
An introduction to performance in its broadest application. This course investigates a wide range of performance practices and theories including traditional Western approaches to basic acting technique and contemporary performance approaches informed and inspired by the visual arts, music, dance and theatre.
Prerequisite: VPDA10H3 and permission of the Theatre and Performance Studies Teaching Staff
Exclusion: DRM200Y, (VPDA01H3), (VPDA02H3), VPDA15H3
Enrolment Limits: 18
Breadth Requirement: Arts, Literature & Language

**VPDA15H3 Introduction to the Fundamentals of Acting**
An introduction to basic acting techniques for those with little or no performance experience. This course focuses on developing the essential skills necessary for the craft of acting through the use of improvisation and acting exercises. Students are also introduced to the foundations of monologue and scene work.
Prerequisite: VPDA10H3 & permission of the Theatre & Performance Studies Teaching Staff
Exclusion: (VPDA01H3), VPDA11H3
Enrolment Limits: 16
Breadth Requirement: Arts, Literature & Language

**VPDB01H3 Intermediate Workshop in Performance I**
This course is intended for students who wish to continue the study of acting for the stage in greater depth. Exercises, discussions, and an increasingly more challenging range of monologues and scenes will be used as vehicles for exploring characterization and the acting process.
Prerequisite: [VPDA10H3 & VPDA11H3] or [(VPDA01H3) & (VPDA02H3)] & permission of the Theatre & Performance Studies Teaching Staff
Breadth Requirement: Arts, Literature & Language

**VPDB02H3 Intermediate Workshop in Performance II**
A continuation of VPDB01H3 with an emphasis on more advanced performance techniques.
Prerequisite: VPDB01H3 and permission of the Theatre and Performance Studies Teaching Staff
Breadth Requirement: Arts, Literature & Language

**VPDB03H3 Technical Production I**
An introduction to the technical elements of theatre production. Students will receive a basic grounding in the fundamentals of stage management, stage lighting, sound operation, set building, scenic painting and general technical practice.
Exclusion: DRM254Y
Breadth Requirement: Arts, Literature & Language

**VPDB04H3 Experiencing the Live Theatre**
Discovering the special nature of various forms of live theatre. Students will attend six professional productions in a variety of theatres in Toronto, and write reviews of their theatre-going experiences. In lectures and seminars students will study contemporary theatrical practices from the perspective of playwrights, performers, etc.
Breadth Requirement: Arts, Literature & Language

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VPDB10H3 Theatre History I: From Ritual to Renaissance
A study of theatre history in social and cultural context from its origins in early human ritual through to the European Renaissance. Through specific case-study, this course will trace how ancient traditions both evolved and persisted to create the dramatic forms more familiar to us today.
Exclusion: DRM260H, DRM262H
Breadth Requirement: Arts, Literature & Language

VPDB11H3 Theatre History II: Early Modern and Popular Theatre
A study of theatre history in social and cultural context from the Early Modern period through to WWI. Through specific case-study, this course will focus on the development of bourgeois or domestic drama, as well as on popular theatre such as Melodrama and Pantomime.
Breadth Requirement: Arts, Literature & Language

VPDB12H3 Theatre History III: Modern Theatre in Global Context
A study of theatre history in social and cultural context from WWI through to the present. Through specific case-study, this course will examine the effects of modernism on theatre, as well as the place of ancient performance traditions in a globalizing world.
Exclusion: DRM266H
Breadth Requirement: Arts, Literature & Language

VPDB13H3 Theatre in Canada
An examination of the development of professional theatre in Canada from 1945 to the present. Special attention will be paid to the development of the major theatrical festivals, the regional theatre movement, the rise of alternative theatre and current theatrical trends.
Exclusion: DRM268H
Breadth Requirement: Arts, Literature & Language

VPDB15H3 The Actor and the Script
A study of the fundamental elements of playscript analysis and interpretation from the actor’s perspective. Through close reading of selected plays, discussions, presentations, practical projects and writing assignments, students will discover the dynamic potential of theatrical texts as blueprints for live performance.
Prerequisite: VPDA10H3 and [VPDA11H3 or VPDA15H3]
Enrolment Limits: 25
Breadth Requirement: Arts, Literature & Language

VPDC01H3 Advanced Workshop: Performance
A continuation of the exploration of advanced performance techniques begun in VPDB02H3.
Prerequisite: VPDB01H3 and VPDB02H3 and ACMB01H3 and permission of the Theatre & Performance Studies teaching staff
Exclusion: DRM400Y
Breadth Requirement: Arts, Literature & Language

VPDC02H3 Directing for the Theatre
The practical study of basic stage directing techniques in a workshop atmosphere. This course will provide students with the fundamental tools of the director’s craft, through an investigation of the principles of script analysis, composition and staging, director/actor communication and rehearsal technique, and will culminate in the presentation of short plays.
Prerequisite: VPDB01H3 and VPDB02H3 and ACMB01H3 and an additional 1.0 credit in Theatre & Performance Studies and permission of the instructor
Enrolment Limits: 8
Breadth Requirement: Arts, Literature & Language

VPDC03H3 Technical Production II
A continuation of Technical Production I. Students will explore in greater depth the practical application of the technical elements of theatrical production. As part of the course, students will assume responsibility for some of the technical positions available in U of T Scarborough productions.
Prerequisite: VPDB03H3 and ACMB01H3
Breadth Requirement: Arts, Literature & Language

VPDC08H3 Physical Theatre
An exploration of a wide range of physical acting techniques such as mime, clown performance, stage acrobatics, unarmed stage fighting, and so on. This course is designed to further advance students’ performance skills by increasing their vocabulary of physical expression and theatrical communication.
Prerequisite: VPDB01H3 and VPDB02H3 and ACMB01H3
Enrolment Limits: 12
Breadth Requirement: Arts, Literature & Language

VPDC20H3 Special Topics in Performance
Selected advanced topics for intensive practical study of some specific aspects of performance. The topics explored in this course will change from session to session.
Prerequisite: Any 3.0 credits in Theatre & Performance Studies and ACMB01H3 and permission of the Program Director.
Enrolment Limits: 16
NOTE: Further information can be found on the ACM-Theatre & Performance Studies website.

VPDD01H3 Supervised Performance
The practical study of major theatrical productions. Students will do research connected with the particular play that has been chosen for production at U of T Scarborough.
Prerequisite: VPDC01H3 & permission of the Theatre & Performance Studies Teaching Staff

VPDD02H3 Supervised Studies in Drama, Theatre and Performance
Advanced scholarly projects open to upper-level Theatre & Performance students. The emphasis in these courses will be on advanced individual projects exploring specific areas of theatre history and/or dramatic literature.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD21H3 Supervised Studies in Drama, Theatre and Performance
Advanced scholarly projects open to upper-level Theatre & Performance students. The emphasis in these courses will be on advanced individual projects exploring specific areas of theatre history and/or dramatic literature.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD22H3 Supervised Studies in Drama, Theatre and Performance
Advanced scholarly projects open to upper-level Theatre & Performance students. The emphasis in these courses will be on advanced individual projects exploring specific areas of theatre history and/or dramatic literature.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.
VPDD23H3 Supervised Studies in Drama, Theatre and Performance
Advanced scholarly projects open to upper-level Theatre & Performance students. The emphasis in these courses will be on advanced individual projects exploring specific areas of theatre history and/or dramatic literature.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD24H3 Independent Projects in Theatre and Performance
Advanced practical projects open to upper-level Theatre & Performance students. These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD25H3 Independent Projects in Theatre and Performance
Advanced practical projects open to upper-level Theatre & Performance students. These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD26H3 Independent Projects in Theatre and Performance
Advanced practical projects open to upper-level Theatre & Performance students. These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD27H3 Independent Projects in Theatre and Performance
Advanced practical projects open to upper-level Theatre & Performance students. These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD28H3 Independent Projects in Theatre and Performance
Advanced practical projects open to upper-level Theatre & Performance students. These courses provide an opportunity for individual exploration in areas involving the practice of theatre: directing, producing, design, playwriting, dramaturgy, etc.
Prerequisite: One full credit in Theatre and Performance at the C-level and permission of the Program Director.

VPDD50H3 Advanced Seminar in Theatre and Performance
A study of key ideas in theatre and performance theory with a focus on pertinent 20th/21st century critical paradigms such as postcolonialism, feminism, interculturalism, cognitive science, and others. Students will investigate theory in relation to selected dramatic texts, contemporary performances, and practical experiments.
Prerequisite: Any three full credits in Theatre and Performance Studies and permission of the Program Director.
Exclusion: DRE356H
Enrolment Limits: 15
Breadth Requirement: Arts, Literature & Language
Women's and Gender Studies

Womens and Gender Studies

Faculty List

- J. English, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- D. Gabaccia, M.A., Ph.D. (Michigan), Professor
- C. Guberman, M.E.S. (York), Associate Professor, Teaching Stream
- A. Grewal, M.A. (Trent), Ph.D. (Chicago), Assistant Professor
- A. Hachimi, M.A., Ph.D. (Hawaii), Associate Professor
- F. Iacovetta, M.A., Ph.D. (York), Professor
- N.C. Johnston, M.A., Ph.D. (York, Canada), Associate Professor, Teaching Stream
- J. Sharma, M.A. (Delhi), M/Phil. (Delhi), Ph.D. (Cantab), Associate Professor

Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca

The Women's and Gender Studies program examines the development, transmission and transformation of ideas and attitudes about women and gender, and studies the social, cultural and economic expression of these ideas across a wide variety of societies, cultures and historic periods. The program encourages students to integrate theory and practice by utilizing a variety of methods, considering perspectives from a wide range of disciplines, and working for change and equality in their communities and daily lives.

By emphasizing the global diversity of women's lives and experiences, the Women's and Gender Studies program asks students to think about the theoretical and practical, real-world significance of differences in race, ethnicity, class, age, ability, sexualities and gender identity. Courses, many of which incorporate experiential learning, enhance understanding of diverse themes including women's role in society, history, philosophy, literature, the media, the environment and development.

Women's and Gender Studies introduces students to interdisciplinary ways of thinking and working drawn from the Humanities, Social and Life Sciences. Faculty teaching in the program, and students enrolled in the program, come from a wide variety of disciplines. Students will develop critical and analytical skills for thinking, writing and oral communication that will prepare them to work in a wide variety of workplaces and community environments.

Completion of a program in Women's and Gender Studies is especially useful for students preparing for careers in research, business, administration, government, law, journalism, education, social work, equity issues, and many forms of public and community activism.

Guidelines for 1st year course selection
Students who intend to complete a Women's and Gender Studies program should first take WSTA01H3 and WSTA03H3 in their 1st year before proceeding to the upper level courses.

For updates and detailed information regarding Women's and Gender Studies, please visit the Historical and Cultural Studies website at: www.utsc.utoronto.ca/hcs/womens-and-gender-studies

Women's and Gender Studies Programs

MAJOR PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: wst-undergrad-advisor@utsc.utoronto.ca

Program Requirements

Students must complete seven full credits as follows:
1. WSTA01H3 Introduction to Women's and Gender Studies
   and
   WSTA03H3 Introduction to Theories of Feminism
2. WSTB05H3 Approaches to Research in Women's and Gender Studies
3. WSTB11H3 Intersections of Inequality
4. WSTC02H3 Research in the Community: Field Experience
5. 1.0 further credit in WST courses
6. 3.5 credits chosen from the courses identified in the Concentrations table below, of which at least 1.0 credit must be at the C- or D-level, and a further 0.5 credit must be at the D-level (students are cautioned that these courses may have pre-requisites that are not included in the program, and advised to check course descriptions in advance):

   Note: To complete requirement #6, students must choose from the courses identified in the concentrations below (students are reminded they must have the pre-requisites). The concentrations are organized into themes to assist students in identifying their interests. There are no program requirements related to the concentrations. Not all courses are offered every year. Please check the Timetable for availability.
Concentrations:

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<th>Gender, Equity, and Human Rights</th>
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<td>ANT15H3 Genders and Sexualities</td>
<td>GASB20H3 Gender and Social Institutions in Asia</td>
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<td>ANTD01H3 The Body in Culture and Society</td>
<td>MGHC23H3/(MGTC23H3) Diversity in the Workplace</td>
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<td>ENGC76H3/(VPAC47H3) The Body in Literature and Film</td>
<td>POLC94H3 Globalization, Gender and Development</td>
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<td>(ENGC77H3)/(VPAC48H3) The Body in Contemporary Culture: Theories and Representations</td>
<td>SOCC09H3 Sociology of Gender and Work</td>
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<td>GGRD10H3 Health and Sexuality</td>
<td>SOCC38H3 Gender and Education</td>
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<td>HLTC02H3 Women and Health: Past and Present</td>
<td>WSTB10H3 Women, Power and Protest</td>
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<td>PSYD18H3 Psychology of Gender</td>
<td>WSTC14H3 Women, Community and Policy Change</td>
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<td>WSTB12H3 Women, Violence and Resistance</td>
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<tr>
<th>Representations and Constructions of Women and Gender</th>
<th>Gender, Local and Global Communities, and Diaspora</th>
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<tr>
<td>ENGB50H3 Women and Literature: Forging a Tradition</td>
<td>ANTC14H3 Feminism and Anthropology</td>
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<td>[(ENGB51H3) or ENGC54H3] Gender and Genre</td>
<td>GASCB0H3 Gendering Global Asia</td>
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<td>ENGC34H3 Early Modern Women and Literature: 1500-1700</td>
<td>GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies</td>
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<td>ENGC51H3 Contemporary Arab Women Writers</td>
<td>GGRD09H3 Feminist Geographies</td>
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<td>ENGD80H3 Women and Canadian Writing</td>
<td>HISC45H3 Immigrant and Race Relations in Canadian History</td>
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<td>LINC28H3/WSTC28H3 Language and Gender</td>
<td>HISD30H3 Gendering America</td>
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<td>PHLB13H3 Philosophy and Feminism</td>
<td>HISD46H3/WSTD46H3 Selected Topics in Canadian Women's History</td>
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<td>PSYD18H3 Psychology of Gender</td>
<td>HISD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire</td>
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<td>SOCB22H3 Sociology of Gender</td>
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<td>(VPHB57H3) Women in the Arts: Hot Mamas, Amazons, and Madonnas</td>
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<td>WSTB13H3 Gender, Media and Culture</td>
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<td>WSTC12H3 Writing the Self: Global Women's Autobiographies</td>
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<td>WSTC16H3 Criminal Women: Gender, Justice and the Media</td>
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<tr>
<td>WSTC22H3 Women and Film</td>
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MINOR PROGRAM IN WOMEN’S AND GENDER STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184  Email: wst-undergrad-advisor@utsc.utoronto.ca

Program Requirements
Students must complete four full credits as follows:
1. WSTA01H3 Introduction to Women's and Gender Studies
   and
   WSTA03H3 Introduction to Theories of Feminism
2. WSTB05H3 Approaches to Research in Women's and Gender Studies
3. WSTB11H3 Intersections of Inequality
4. Two further credits in Women's and Gender Studies at the B, C, or D-level and/or from the list of courses in requirement #7 of the Major Program; at least one of these credits must be at the C or D-level.

Women's and Gender Studies Courses

WSTA01H3 Introduction to Women's and Gender Studies
An introduction to the study of women around the world from an interdisciplinary perspective. Issues to be addressed will include: women's diversity locally and globally, patriarchal foundations, the dynamics of socialization, and the transmission and perpetuation of images of women.
WSTB05H3 Approaches to Research in Women's and Gender Studies
Using a feminist lens, various methods and methodologies of research in the humanities will be explored. Concepts of paradigm, power, knowledge-creation and ethics will be examined. Students will gain critical reading skills and learn the fundamentals of conducting research. There is an experiential learning component.
Prerequisite: WSTA01H3 or WSTA03H3 or (WSTA02H3)
Exclusion: WGS202H, WGS360H
Breadth Requirement: History, Philosophy & Cultural Studies

WSTB06H3 Women in Diaspora
Because of gendered responsibilities for creating homes, migrant women create and experience diasporic relations (to family and friends elsewhere) in distinctive ways. This course uses methods and materials from literature, history and the social sciences to understand the meaning of home for migrant women from many different cultural origins.
Prerequisite: 1.0 credit at the A-level in AFS, CLA, GAS, HIS or WST courses
Breadth Requirement: History, Philosophy & Cultural Studies

WSTB10H3 Women, Power and Protest
An examination of local and global movements for change, past and current, which address issues concerning women.
This course will survey initiatives from the individual and community to the national and international levels to bring about change for women in a variety of spheres.
Prerequisite: WSTA01H3 or WSTA03H3
Exclusion: (WSTA02H3)
Breadth Requirement: Social & Behavioural Sciences

WSTB11H3 Intersections of Inequality
An overview of the complex interactions among race, class, gender and sexuality in traditional and modern societies. Drawing on both historical and contemporary patterns in diverse societies, the course offers feminist perspectives on the ways in which race, class, gender, and sexual orientation have shaped the lives of women and men.
Prerequisite: WSTA01H3 & (WSTA02H3)
Breadth Requirement: Social & Behavioural Sciences

WSTB12H3 Women, Violence and Resistance
An analysis of violence against women and recent forms of resistance to violence. A historical, cultural, and structural approach to studying gender-based violence. Family, state, economic and ideological aspects will be addressed. Initiatives toward making communities safer, including strategies for prevention and education will be examined.
Prerequisite: WSTA01H3 & (WSTA02H3) or WSTB05H or WSTB11H3 or one half credit from the list provided in requirement #6 in the Major in Women's and Gender Studies]
Exclusion: (NEW373H), WGS373H
Breadth Requirement: Social & Behavioural Sciences

WSTB13H3 Gender, Media and Culture
An interdisciplinary approach to feminist critiques of the media. Gendered representation will be examined in media such as film, television, video, newspapers, magazines and on-line technologies. Students will also develop a perspective on women's participation in, and contributions toward, the various media industries.
Prerequisite: WSTA01H3 or (WSTA03H3 or (WSTA02H3))
Exclusion: (NEW271Y), WGS271Y, WGS205H
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC02H3 Research in the Community: Field Experience
Students will design and conduct a qualitative research project in the community on an issue of their choice related to women and gender. Field work is the basis of this course. It will also include an overview of the various phases of carrying out research: planning the research project, choosing appropriate methods for data collection, analyzing the data and reporting the results.
Prerequisite: WSTA01H3 & WSTA03H3 & WSTB05H & WSTB11H3 & 1.0 credit taken from the courses listed in requirement 6 of the Major in Women's and Gender Studies
Exclusion: (WSTD02H3)
Enrolment Limits: 15
Breadth Requirement: Social & Behavioural Sciences

WSTC10H3 Women and Development
How development affects, and is affected by, women around the world. Topics may include labour and economic issues, food production, the effects of technological change, women organizing for change, and feminist critiques of traditional development models.
Prerequisite: [WSTA01H3 & (WSTA03H3 or (WSTA02H3))] or IDSB01H3 or IDSB02H3
Breadth Requirement: Social & Behavioural Sciences
NOTE: Topics vary from year to year. Check the Women's and Gender Studies website at http://www.utsc.utoronto.ca/hcs/womens-and-gender-studies-for-current-offerings.

WSTC11H3 Applied Study in Women and Development
An examination of a critical problem within the global context as it affects women in their communities. The class as a whole will determine the issue under consideration.
Prerequisite: WSTC10H3
Exclusion: (WSTC10Y3)
Breadth Requirement: Social & Behavioural Sciences

WSTC12H3 Writing the Self: Global Women's Autobiographies
An exploration of the ways in which women from different countries construct the gendered subject in their representations of childhood, sexuality, work, maternity and illness. Texts will be read in English and an emphasis will be placed on the cultural contexts of gender, ethnicity and class.
Prerequisite: ENG50H3 or [WSTA01H3 & (WSTA03H3 or (WSTA02H3))] & any ENG or FRE literature course].
Recommended Preparation: WSTB13H3
Enrolment Limits: 50
Breadth Requirement: Arts, Literature & Language
WSTC13H3 Women, Gender and Islam
Explores historical and contemporary debates regarding the construction of gender in Islam. Topics include the historical representations of Muslim woman, veiling, sexuality, Islamic law and Islamic feminism. This course situates Muslim women as multidimensional actors as opposed to the static, Orientalist images that have gained currency in the post 9/11 era.
Prerequisite: 1.5 credits in WST courses including 0.5 credit at the B- or C-level
Exclusion: WSTC30H3 (if taken in the 2008 Winter Session), WGS301H
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC14H3 Women, Community and Policy Change
An examination of the impact of social policy on women's lives, from a historical perspective. The course will survey discriminatory practices in social policy as they affect women and immigration, health care, welfare, and the workplace. Topics may include maternity leave, sexual harassment, family benefits, divorce, and human rights policies.
Prerequisite: WSTA01H3 & [WSTA03H3 or (WSTA02H3)]
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC16H3 Criminal Women: Gender, Justice and the Media
Examining popular media and history students will investigate themes of criminality, gender and violence in relation to the social construction of justice. Some criminal cases involving female defendants will also be analyzed to examine historical issues and social contexts. Debates in feminist theory and criminology will be discussed.
Prerequisite: [WSTA01H3 & [WSTA03H3 or (WSTA02H3)]] or 1.0 full credit in Sociology
Recommended Preparation: WSTB13H3
Enrolment Limits: 40
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC20H3 Women and Environments
An examination of the impact the environment has on women's lives around the world. Current and historical perspectives. Topics will include: the impact of environmental degradation on women's bodies; planning for safer places; global sustainable development; ecofeminism; the gender division of spaces.
Prerequisite: 1.5 credits in WST, 1.0 credits of which must be at the B- and/or C-level.
Breadth Requirement: Social & Behavioural Sciences

WSTC22H3 Women and Film
This course examines narrative, documentary and experimental films by a selection of global women directors from a social, critical and historical perspective. We will analyze the filmic representations of race, class, gender and sexual orientation, and explore how cinema made by women can challenge or perpetuate notions of gender.
Prerequisite: Any 5 credits, including [WSTA01H3 & [WSTA03H3 or (WSTA02H3)]] or [any ENG, FRE or GAS cinema class]
Recommended Preparation: WSTB13H3
Enrolment Limits: 50
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC23H3 Community Engagement Practicum
An opportunity for students in the Major and Minor programs in Women's and Gender Studies to apply theoretical knowledge related to women and gender to practical community experience through an unpaid practicum placement in a community, educational or social organization.
Prerequisite: WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and [WSTB05H3 and WSTB11H3 and WSTC02H3]
Enrolment Limits: 8
Breadth Requirement: Social & Behavioural Sciences

WSTC24H3 Gender in the Kitchen
Across cultures, women are the main preparers and servers of food in domestic settings; in commercial food production and in restaurants, and especially in elite dining establishments, males dominate. Using agricultural histories, recipes, cookbooks, memoirs, and restaurant reviews and through exploration of students' own domestic culinary knowledge, students will analyze the origins, practices, and consequences of such deeply gendered patterns of food labour and consumption.
Prerequisite: 1.0 credit in WST courses
Breadth Requirement: History, Philosophy & Cultural Studies

WSTC28H3 Language and Gender
An introduction to the research on differences between women and men in how they use language and how they behave in conversational interaction, together with an examination of the role of language in reflecting and perpetuating cultural attitudes towards gender.
Same as LINC28H3
Prerequisite: WSTA01H3 or WSTA03H3, and one full credit at the B-level in ANT, LIN, SOC or WST
Exclusion: JAL355H, LINC28H3
Breadth Requirement: Social & Behavioural Sciences

WSTC30H3 Selected Topics in Women's/Gender Studies
An examination of a current topic relevant to women and gender studies. Students will have the opportunity to explore recent scholarship in a specific content area which will vary from year to year. Participation in a related project/practicum in the community may be incorporated into the course.
Prerequisite: WSTA01H3 & [WSTA03H3 or (WSTA02H3)]
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.

WSTC31H3 Selected Topics in Women's/Gender Studies
An examination of a current topic relevant to women's and gender studies. Students will have the opportunity to explore recent scholarship in a specific content area which will vary from year to year. Participation in a related project/practicum in the community may be incorporated into the course.
Prerequisite: WSTA01H3 & [WSTA03H3 or (WSTA02H3)]
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.

WSTC32H3 Selected Topics in Women's/Gender Studies
An examination of a current topic relevant to women's and gender studies. Students will have the opportunity to explore recent scholarship in a specific content area which will vary from year to year. Participation in a related project/practicum in the community may be incorporated into the course.
Prerequisite: WSTA01H3 & [WSTA03H3 or (WSTA02H3)]
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.
WSTD04H3  Senior Seminar in Gender, Equity, and Human Rights
An advanced and in-depth examination of selected topics related to women and gender, equity, diversity, and human rights in the context of local and global communities, and diaspora. The course will be in a seminar format with student participation expected. It is writing intensive and involves a major research project.
Prerequisite: 8.0 credits including 2.0 credits in WST courses
Enrolment Limits: 20
NOTE: Topics vary from year to year. Check the Women's and Gender Studies website at http://www.utsc.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.

WSTD07H3  Themes in the History of Childhood and Culture
A comparative analysis of transnational histories and cultural and gendered ideologies of children and childhood through case studies of foundlings in Italy, factory children in England, orphans and adoption in the American West, labouring children in Canada and Australia, mixed-race children in Britain India.
Same as HISD07H3
Prerequisite: At least 2 C-level courses in History and/or Women's and Gender Studies.
Exclusion: HISD07H3
Enrolment Limits: 15

WSTD10H3  Storytelling and Social Change
With a focus on telling women's complex stories of life in Scarborough, this applied research course introduces students to the theory, methods, and practice of feminist oral history. The course involves working and studying in the classroom and in the community. 15 hours of community work expected. Supplementary application required.
Prerequisite: 3.5 credits in WST courses, including [WSTB05H3 and 0.5 credit at the C-level]
Exclusion: HIS28H3, HISD25H3, WSTD02H3 (Fall 2013), HISD44H3 (Fall 2013), CITC10H3 (Fall 2013)
Enrolment Limits: 20
Breadth Requirement: History, Philosophy & Cultural Studies

WSTD11H3  Special Topics in Women's and Gender Studies
An advanced and in-depth seminar dedicated to a topic relevant to Women's and Gender Studies. Students will have the opportunity to explore recent scholarship in a specific content area, which will vary from year to year. Participation in a related project/practicum in the community may be incorporated into the course.
Prerequisite: WSTB11H3 and 1.0 credit at the C-level chosen from the courses that can be used to satisfy requirement 6 of the Major in Women's and Gender Studies
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students enrolled in the Major and Minor in Women's and Gender Studies. Additional students will be admitted as space permits. Check the website www.utsc.utoronto.ca/~hcs/programs/women-gender-studies.html for current offerings.

WSTD16H3  Socialist Feminism in Global Context
A comparative exploration of socialist feminism, encompassing its diverse histories in different locations, particularly China, Russia, Germany and Canada. Primary documents, including literary texts, magazines, political pamphlets and group manifestos that constitute socialist feminist ideas, practices and imaginaries in different times and places will be central. We will also seek to understand socialist feminism and its legacies in relation to other contemporary stands of feminism.
Same as HISD16H3
Transnational Area
Prerequisite: 8.0 credits, including [0.5 credit at the A-level in HIS or WST courses] and [0.5 credit at the C-level in HIS or WST courses]
Exclusion: HISD16H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Priority will be given to students who have taken at least 0.5 credit at the A- or B-level in HIS or WST courses.

WSTD46H3  Selected Topics in Canadian Women's History
Weekly discussions of assigned readings. The course covers a broad chronological sweep but also highlights certain themes, including race and gender relations, working women and family economies, sexuality, and women and the courts. We will also explore topics in gender history, including masculinity studies and gay history.
Same as HISD46H3
Prerequisite: Any credit in Canadian history
Exclusion: HISD46H3
Enrolment Limits: 15
Breadth Requirement: History, Philosophy & Cultural Studies
NOTE: Topics vary from year to year. Check the website www.utsc.utoronto.ca/~hcs/programs/history.html for current offerings.