

## **University of Toronto Scarborough**

## 2018-2019 Calendar (Summer 2019)

## [Created Feb 27, 2019]

## **Table of Contents**

1. Welcome to UTSC	3
2. Understanding the Academic Calendar	4
3. UTSC Academics At-A-Glance	6
4. Academic Integrity	17
5. Academic Regulations	19
6. Understanding Degrees, Programs and Courses	28
7. Understanding Marks and Grades	48
8. Academic Support on the UTSC Campus	53
African Studies	55
Anthropology	61
Applied Microbiology (formerly Industrial Microbiology)	79
Art History and Visual Culture	81
Arts, Culture and Media	88
Arts Management	92
Astronomy	98
Biological Sciences	101
Chemistry	138
City Studies	156
Classical Studies	167
Cognitive Science	172
Combined Degree Programs	174
Computer Science	180
Concurrent Teacher Education	199
Curatorial Studies	200
Diaspora and Transnational Studies	203
Double Degrees BBA/BSc	204
Economics for Management Studies	210
English	224
Environmental Science	259
Environmental Science and Technology	281
Environmental Studies	283
Food Studies	287
French	290
Geography	
Global Asia Studies	322
Health Studies	332
Historical and Cultural Studies	350
History	

International Development Studies	377
International Studies	393
Journalism	394
Languages	402
Linguistics	409
Management	423
Mathematics	476
Media Studies	492
Music and Culture	501
Neuroscience	511
New Media Studies	520
Paramedicine	526
Philosophy	533
Physical Sciences	549
Physics and Astrophysics	554
Political Science	565
Psychology	584
Public Policy	613
Religion	618
Society and Environment	621
Sociology	622
Statistics	642
Studio	655
Centre for Teaching and Learning	667
Theatre and Performance Studies	669
Women's and Gender Studies	676
Updates and changes to the Calendar	688

## **1. Welcome to UTSC**

### 1.1 Greetings from the Vice-Principal Academic and Dean

Welcome to the University of Toronto Scarborough (UTSC). In joining UTSC you'll take your place among Canada's future leaders. As part of the University of Toronto, 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 exceptional learning experience in a supportive community environment.

UTSC undergraduate programs are unique at the wider University 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

### **1.2 Strategic Directions**

The University of Toronto 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 <u>Office of the President</u> website.

UTSC contributes to achieving the broader University 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 University 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.
- 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.

## 2. Understanding the Academic Calendar

The academic *Calendar* is published online, annually, normally by April 1. It outlines rules, regulations, and curriculum for the University of Toronto Scarborough (UTSC) only.

Students should be aware that UTSC is a separate faculty of the University of Toronto, 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 <u>Enrolment Services</u> to establish how they will be affected.

The publication of information in the *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 the *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 <u>Changes to *Calendar*</u> 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 <u>Registrar's Office</u> 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 academic 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 Office of the Registrar

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, resources, and services for students who find it difficult to visit in person.

#### The <u>Registrar's Office</u> 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.

#### <u>AskRO</u>:

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. These records are shared with <u>Degree Explorer</u>, 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 Advanced Education and Skills Development (MAESD) 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 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 Minister uses this personal information is available on the <u>Ministry's website</u>.

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 <u>http://www.fippa.utoronto.ca</u> 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 <u>http://www.fippa.utoronto.ca</u>.

### 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), and are expected to use it while conducting official University related correspondence. Setting up this official account is mandatory for all University of Toronto students: instructions are available at <a href="http://its.utsc.utoronto.ca">http://its.utsc.utoronto.ca</a>. 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. UTSC Academics At-A-Glance

### 3.1 Senior Academic Administration

Office of the Dean and Vice-Principal, Academic: Professor William Gough: Vice-Principal Academic and Dean Professor Ahmed Allahwala: Special Advisor to the Dean on Experiential Education Professor Maydianne Andrade: Vice-Dean Faculty Affairs and Equity Professor Clare Hasenkampf: Associate Dean Teaching and Learning Professor Lynda Lange: Dean's Designate for Administration of the Code of Behaviour on Academic Matters Professor Wanda Restivo: Dean's Designate for Administration of the Code of Behaviour on Academic Matters Professor Mark Schmuckler: Vice-Dean Undergraduate Professor Mary Silcox: Vice-Dean Graduate Curtis Cole: Registrar and Assistant Dean Enrolment Management Lesley Lewis: Assistant Dean Academic

#### <u>Other</u>:

Professor Bruce Kidd: Vice-President and Principal (until June 30, 2018) Professor Heinz-Bernhard Kraatz: Vice-Principal Research (on sabbatical until June 30, 2018) Professor Marc Cadotte: Acting Vice-Principal Research (unitl June 30, 2018) 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 analog program is also offered.
- UTSC offers Double Degree programs (Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream; and Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream. For more information see the <u>Double Degree Programs</u> section of this Calendar.
- 4. UTSC also offers undergraduate/graduate Combined Degree Programs. For more information see the <u>Combined</u> <u>Degree Programs</u> section of this *Calendar*.

New Programs/Offerings in 2018-19:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

#### Department of Anthropology:

Chair: Professor M. Lambek

Programs	Calendar Section
<ul> <li>Evolutionary Anthropology, Specialist, BSc</li> <li>Socio-Cultural Anthropology, Specialist BA</li> <li>Evolutionary Anthropology, Major, BSc</li> <li>Socio-Cultural Anthropology, Major, BA</li> <li>Anthropology, Minor (Arts)</li> </ul>	Anthropology *Course code prefix: ANT

## <u>Department of Arts, Culture and Media</u>: Acting Chair: Professor L. Tucker

Programs	Calendar Section
<ul> <li>Art History and Visual Culture, Major, BA</li> <li>Art History and Visual Culture, Minor (Arts)</li> </ul>	Art History and Visual Culture *Course code prefix: VPH
<ul> <li>Arts Management, Specialist, BA         <ul> <li>Standard Stream</li> <li>Field Placement Stream</li> </ul> </li> </ul>	Arts Management *Course code prefix: VPA
Curatorial Studies, Minor (Arts)	Curatorial Studies *Course code prefix: CRT
<ul> <li>Journalism (Joint program with Centennial College), Specialist, BA</li> </ul>	Journalism *Course code prefix: JOU
<ul> <li>Media, Journalism and Digital Cultures, Major, BA         <ul> <li>Media Studies Stream</li> <li>Journalism Studies Stream</li> </ul> </li> <li>Media Studies, Minor (Arts)</li> </ul>	Media Studies *Course code prefix: MDS
<ul> <li>Music and Culture, Major, BA</li> <li>Music and Culture, Minor (Arts)</li> </ul>	Music and Culture *Course code prefix: VPM
<ul> <li>New Media Studies (Joint program with Centennial College), Major, BA</li> </ul>	New Media Studies *Course code prefix: NME
<ul> <li>Studio, Specialist, BA</li> <li>Studio, Major, BA</li> <li>Studio, Minor (Arts)</li> </ul>	Studio *Course code prefix: VPS
<ul> <li>Theatre and Performance Studies, Major, BA</li> <li>Theatre and Performance Studies, Minor (Arts)</li> </ul>	Theatre and Performance Studies *Course code prefix: VPD

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

## <u>Department of Biological Sciences:</u> Chair: Professor A. Mason

Programs	Calendar Section
<ul> <li>Conservation and Biodiversity, Specialist, BSc</li> <li>Human Biology, Specialist, BSc</li> <li>Integrative Biology, Specialist, BSc</li> <li>Molecular Biology and Biotechnology, Specialist, BSc [+Co-op]</li> <li>Biology, Major, BSc</li> <li>Conservation and Biodiversity, Major, BSc</li> <li>Human Biology, Major, BSc</li> <li>Molecular Biology, Immunology and Disease, Major, BSc</li> <li>Plant Biology, Major, BSc</li> <li>Biology, Minor (Science)</li> </ul>	Biological Sciences *Course code prefix: BIO
<ul> <li>Paramedicine (Joint program with Centennial College), Specialist, BSc</li> </ul>	Paramedicine *Course code prefix: PMD

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 V. Hadzilacos (until June 30, 2018)

Programs	Calendar Section
<ul> <li>Computer Science, Specialist, BSc         <ul> <li>Comprehensive Stream [+Co-op]</li> <li>Software Engineering Stream [+Co-op]</li> <li>Information Systems Stream [+Co-op]</li> <li>Health Informatics Stream [+Co-op]</li> <li>Entrepreneurship Stream [+Co-op]</li> </ul> </li> <li>Computer Science, Major, BSc [+Co-op]</li> <li>Computer Science, Minor (Science)</li> </ul>	Computer Science *Course code prefix: CSC
<ul> <li>Mathematics, Specialist, BSc         <ul> <li>Comprehensive Stream [+Co-op]</li> <li>Statistics Stream [+Co-op]</li> <li>Teaching Stream [+Co-op]</li> </ul> </li> <li>Mathematics, Major, BSc [+Co-op]</li> </ul>	Mathematics *Course code prefix: MAT
<ul> <li>Statistics, Specialist, BSc         <ul> <li>Quantitative Finance Stream [+Co-op]</li> <li>Statistical Machine Learning and Data Mining Stream [+Co-op]</li> </ul> </li> <li>Statistics, Major, BSc [+Co-op]</li> <li>Applied Statistics, Minor (Science)</li> <li>Statistics, Minor (Science)</li> </ul>	Statistics *Course code prefixes: ACT and STA

The Department of Computer and Mathematical Sciences, in partnership with the Department of Management offers the following Double Degree programs:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

#### Centre for Critical Development Studies:

Director: Professor P. Kingston

Programs	Calendar Section
<ul> <li>International Development Studies, Specialist, BSc [+Co-op]</li> <li>International Development Studies, Specialist, BA [+Co-op]</li> <li>International Development Studies, Major, BA</li> <li>International Development Studies, Minor (Arts)</li> </ul>	International Development Studies *Course code prefix: IDS

#### Department of English:

Chair: Professor K. Larson

Programs	Calendar Section
<ul> <li>English, Specialist, BA [+Co-op]</li> <li>English, Major, BA [+Co-op]</li> <li>English Literature, Minor (Arts)</li> <li>Creative Writing, Minor (Arts)</li> <li>Literature and Film Studies, Minor (Arts)</li> </ul>	English *Course code prefix: ENG

#### Centre for French and Linguistics:

Director: Professor K. McCrindle

Programs	Calendar Section
<ul> <li>French, Specialist, BA [+Co-op]</li> <li>French, Major, BA [+Co-op]</li> <li>French, Minor (Arts)</li> </ul>	French *Course code prefix: FRE
English to Chinese Translation, Minor (Arts)	Languages (including English to Chinese Translation, French, Chinese, Hindi, Japanese, Mandarin, and Tamil) *Course code prefixes: ECT and LGG
<ul> <li>Linguistics, Specialist, BA [+Co-op]</li> <li>Psycholinguistics, Specialist, BA [+Co-op]</li> <li>Linguistics, Major, BA [+Co-op]</li> <li>Linguistics, Minor (Arts)</li> </ul>	Linguistics *Course code prefixes: LIN and PLI

#### Department of Historical and Cultural Studies:

Chair: Professor L. Chen

Programs	Calendar Section
African Studies, Minor (Arts)	African Studies *Course code prefix: AFS
Classical Studies, Minor (Arts)	Classical Studies Course code prefix: CLA
Food Studies, Minor (Arts)	Food Studies *Course code prefix: FST
<ul> <li>Global Asia Studies, Specialist, BA</li> <li>Global Asia Studies, Major, BA</li> <li>Global Asia Studies, Minor (Arts)</li> </ul>	Global Asia Studies *Course code prefix: GAS
<ul> <li>History, Specialist, BA [+Co-op]</li> <li>History, Major, BA [+Co-op]</li> <li>History, Minor (Arts)</li> </ul>	History *Course code prefix: HIS
<ul> <li>Women's and Gender Studies, Major, BA [+Co-op]</li> <li>Women's and Gender Studies, Minor (Arts)</li> </ul>	Women's and Gender Studies *Course code prefix: WST

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:

Acting Chair: Professor T. Kepe (until June 30, 2018)

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

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

## Interdisciplinary Centre for Health and Society: Interim Director: Professor H. Wardlow

Programs	Calendar Section
<ul> <li>Health Studies, Population Health, Major, BSc [+Co-op]</li> <li>Health Studies, Health Policy, Major, BA [+Co-op]</li> <li>Health Humanities, Minor (Arts)</li> </ul>	Health Studies *Course code prefix: HLT

#### Department of Management:

Chair: Professor D. Zweig

Programs	Calendar Section
<ul> <li>Economics for Management Studies, Major, BA</li> <li>Economics for Management Studies, Minor (Arts)</li> </ul>	Economics for Management Studies *Course code prefix: MGE
<ul> <li>Economics for Management Studies, Specialist, BBA [+Co-op]</li> <li>Management, Specialist, BBA [+Co-op]</li> <li>Management and Accounting, Specialist, BBA [+Co-op]</li> <li>Management and Finance, Specialist, BBA [+Co-op]</li> <li>Management and Human Resources, Specialist, BBA [+Co-op]</li> <li>Management and Information Technology, Specialist, BBA [+Co-op]</li> <li>Management and International Business, Specialist Co-operative, BBA</li> <li>Management and Marketing, Specialist, BBA [+Co-op]</li> <li>Strategic Management, Specialist, BBA</li> <li>Management Strategy Stream [+Co-op]</li> <li>Entrepreneurship Stream [+Co-op]</li> </ul>	Management *Course code prefixes: MGA, MGF, MGH, MGI, MGM, MGO, MGS, and MGT

The Department of Management, in partnership with the Department of Computer and Mathematical Sciences offers the following Double Degrees programs:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

#### **Department of Philosophy:**

Chair: Professor S. Sedivy

Programs	Calendar Section
<ul> <li>Philosophy, Specialist, BA [+Co-op]</li> <li>Philosophy, Major, BA [+Co-op]</li> <li>Philosophy, Minor (Arts)</li> </ul>	Philosophy *Course code prefix: PHL

### Department of Physical and Environmental Sciences:

Chair: Professor G. Arhonditsis

Programs	Calendar Section
Astronomy and Astrophysics, Minor (Science)	Astronomy *Course code prefix: AST
<ul> <li>Biological Chemistry, Specialist, BSc [+Co-op]</li> <li>Chemistry, Specialist, BSc [+Co-op]</li> <li>Biochemistry, Major, BSc [+Co-op]</li> <li>Chemistry, Major, BSc [+Co-op]</li> </ul>	Chemistry *Course code prefix: CHM
<ul> <li>Environmental Biology, Specialist, BSc [+Co-op]</li> <li>Environmental Chemistry, Specialist, BSc [+Co-op]</li> <li>Environmental Geoscience, Specialist, BSc [+Co-op]</li> <li>Environmental Science, Major, BSc [+Co-op]</li> <li>Environmental Science, Minor (Science)</li> <li>Natural Sciences and Environmental Management, Minor (Science)</li> </ul>	Environmental Science *Course code prefix: EES
Environmental Studies, Major, BA     **Shared with Dept. of Political Science	Environmental Studies *Course code prefix: EST
<ul> <li>Physical and Mathematical Sciences, Specialist, BSc</li> <li>Physical Sciences, Major, BSc</li> </ul>	Physical Sciences *Course code prefix: PSC
<ul> <li>Environmental Physics, Specialist, BSc [+Co-op]</li> <li>Physics and Astrophysics, Specialist, BSc</li> <li>Physics and Astrophysics, Major, BSc</li> </ul>	Physics and Astrophysics Course code prefix: PHY

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:**

Acting Chair: Professor M. Kohn (until June 30, 2018) Chair: Professor G. Skogstad

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

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 (until June 30, 2018)

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

The Department of Psychology also offers courses in the following discipline areas: \*Cognitive Science - Course code prefix: COG

#### **Department of Sociology:**

Acting Chair: Professor D. Silver (until June 30, 2018) Chair: Professor P. Landolt

Programs	Calendar Section
<ul> <li>Sociology, Specialist, BA</li> <li>Sociology, Major, BA</li> <li>Sociology, Minor (Arts)</li> <li>Culture, Creativity, and Cities, Minor (Arts)</li> <li>Critical Migration Studies*, Minor (Arts) <ul> <li>*formerly known as the Minor in Migration and Ethnic Diversity</li> </ul> </li> </ul>	Sociology *Course code prefix: SOC

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 (until June 30, 2018)

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) this program is closed effective 2018-19
- Specialist (Joint) in Environmental Science and Technology (BSc) this program is closed effective 2018-19
- 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. 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.

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 <u>Awards and Scholarships</u> 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 <u>Code of Behaviour on Academic</u> <u>Matters</u> (non academic behaviour is governed by the <u>Code of Student Conduct</u>). 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:

- Plagiarism using the words or ideas of another person without citing the sources;
- Unauthorized aids using unauthorized aids such as notes or calculators, which could be considered cheating, on tests and exams;
- Unauthorized assistance having someone else do the work for you;

- Forgery or falsification making a false statement, presenting a false document or signing someone else's name on a document required by the University;
- Personation having someone else write an exam for you, or writing an exam for someone else;
- Concocting using false data, or providing false references;
- Self-plagiarism submitting work for credit when you have submitted it in another course.

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 <u>UTSC Library</u>, the <u>Writing Centre</u>, the <u>English Language Development Centre</u>, and the <u>Academic Advising & Career Centre</u>. International students will also find help in the <u>International Student Centre</u>.

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 <u>Office of Academic Integrity</u> at UTSC.

## **5. Academic Regulations**

### 5.1 University of Toronto Policies

The University of Toronto 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 <u>Governing Council</u> website, but those of particular importance to students include:

- Guidelines Concerning Access to Official Student Academic Records
- <u>Code of Behaviour on Academic Matters</u>
- <u>Code of Student Conduct</u>
- <u>University Assessment and Grading Practices Policy</u>
- 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 University 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 University of Toronto is assigned a unique student number that corresponds with their personal University record. This number is confidential, and the University assumes and expects every student to protect the confidentiality of their student number.

#### UTORid:

Each student is automatically issued a JOINid, which becomes their UTORid after they accept their offer of admission, and is activated once they obtain their TCard. A valid UTORid grants access to online University of Toronto services such as ACORN, the University of Toronto email address (UTMail+), the wireless network, the University Library System, and UT Portal. Students must activate their individual UTORid, and select a secure password of their choice in order to use these services.

To prevent shared access to internal or external communications and students records by a third party, including family and friends, students should not share their UTORid and/or password with anyone.

#### Student Cards (TCards):

All registered students are required to have a functional and up-to-date University of Toronto student card (TCard) as their primary form of identification to gain access to University resources and services, both in person and online.

A TCard must be presented in person to write tests and final exams, request transactions at the Registrar's Office, and use the Library, computer labs, and Athletic facilities, as well as for other campus service providers. Students may be required to present their TCard upon request by the University or its service providers.

The TCard and TCard photo remain the property of the University of Toronto, and may not be used for any illegal, improper, or unlawful purpose by students. It is the student's responsibility to ensure the safekeeping of their TCard, and they must not lend, or permit others to use, their TCard for any purpose. Altering, falsifying, misuse of, lending, or selling a TCard is prohibited and may be subject to sanctions, pursuant to the University's regulations, policies and procedures, including the *Code of Student Conduct* and the *Code of Behaviour on Academic Matters*, and may also be subject to civil or criminal proceedings.

A TCard is to be kept for the duration of a student's active registration, and is to be used only by the person to whom it is issued. Students cannot hold more than one TCard at any given time. If a student is found in possession of more than one TCard, they may keep the TCard with the highest barcode number, and are expected to surrender any previous TCards voluntarily, or by request, to the TCard Office or Registrar's Office.

Lost or stolen TCards must be immediately reported to the TCard Office, the Library, and any meal plan provider. Students must replace lost, stolen, or damaged TCards at the TCard Office; replacement of TCards is subject to a replacement fee.

### **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 <u>Admissions and Student Recruitment Office</u> 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;
- 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:

- End of June for the Summer examination periods (F, S and Y);
- End of October for the Fall examination period; and
- End of February 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 Code of Conduct tab.

### Final Examination Timetable Conflicts:

1. Students scheduled to write two examinations at the same time should report their conflicts through <u>eService</u>: 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 <u>eService</u> 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 <u>eService</u>, 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 <u>Registrar's Office website</u>.

#### 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.

#### 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.
- 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.
- Bags and books should, whenever possible, be left in students' lockers. The University is no responsible for personal property that is left in the exam room.
- Paper coffee cups, plastic water bottles with labels, pencil cases, and smart/cell phones are not permitted on exam room desks/tables. Students wearing hats or peaked caps will be asked to remove them prior to sitting down to write their exams.
- 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 smart/cell phones, tablets and laptop computers, in the resealable 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.

#### 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 <u>eService</u>. 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 <u>Petitions</u> 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 <u>eService</u> for a deferred exam, within 72 hours of the missed examination. Complete information regarding how to submit a petition is available under the <u>Petitions</u> 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 <u>Verification of Student Illness or Injury</u> 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 from the date the student submits their petition. Documents must be in their original form; photocopies or faxes will not be accepted.
- 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 June Summer session are held in the immediately following August final examination period, or the study period that precedes it;
- Exams deferred from the August Summer session are held in the immediately following Fall session final examination period, or the study session 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 in the August 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 <u>eService</u>. 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 the 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 <u>eService</u>. 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 any change in grade. Normally the rereading 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 <u>University Assessment and Grading Practices Policy</u> 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 <u>eService</u>. 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 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 recalculation of marks through the Registrar's Office: 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 <u>Notice of Appeal</u> 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 <u>Petitions</u> tab on the Registrar's Office website.

# 6. Understanding Degrees, Programs and Courses

### 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:

- 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 the *Calendar*, on the <u>Registrar's Office</u> website, and on the University's Office of the <u>Governing Council</u> 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 <u>Dates and Deadlines</u> 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 POSts have been confirmed by the Registrar's Office or the relevant academic units. They should also check <u>Degree Explorer</u> 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 <u>Registrar's Office</u> 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.

#### Non-Degree Previous Degree Students:

A Non-degree Previous Degree Student is an undergraduate alumnus of the University of Toronto (including UTSC) who has been approved to take credit courses in an academic session following graduation.

- To become registered as a Non-Degree Previous Degree Student, an application is required by the deadlines set by the UTSC Registrar's Office, prior to the beginning of each academic session (Summer, Fall, Winter). Registration is at the discretion of the Registrar's Office and students may be subject to an application fee. Degree-seeking students will normally take priority in allocating space in classes and other resources.
- Non-Degree Previous Degree Students are not associated with a Subject POSt (e.g., Specialist in Chemistry, Major in English), or degree program of study (e.g., Honours Bachelor of Arts, Bachelor of Business Administration), and are not permitted to enrol in programs after graduation. Any remaining uncompleted Subject POSts at the time of graduation will be purged during the degree conferral process.
- 3. Academic activities taken as a Non-Degree Previous Degree Student do not count towards Subject POSt or degree requirements.
- 4. Non-Degree Previous Degree Students pay tuition and incidental fees, as per the UTSC fee schedule.
- 5. Non-Degree Previous Degree Students are subject to the University of Toronto's Code of Student Conduct.
- 6. Except for regulations concerning degree requirements and regulations where non-degree students are specifically exempted, all regulations apply equally to Non-Degree Previous Degree Students and degree students.

#### 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
  - o 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):
    - o 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 Additional Information About Degrees

#### Double Degree Programs:

The Department of Computer and Mathematical Sciences, in partnership with the Department of Management offers Double Degrees programs as described below. For more information please see the <u>Double Degree Programs</u> section of this Calendar:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

The Double Degree programs create an accelerated pathway for students who would otherwise have to complete two separate Specialist programs. They explicitly focus on finance and quantitative methods, providing students with a thorough education in both the business and the quantitative aspects of the financial industry. The Double Degree Programs take advantage of existing synergies to allow students to complete both undergraduate programs and degrees within five years without compromising their learning experience. Students will complete a total of 25.0 credits and, for those enrolled in the Double Degree (Specialist Co-op programs), students must also complete three mandatory Co-op work terms.

#### 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 <u>Combined Degree Programs</u> section of this *Calendar*.

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

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 <u>Combined Degree Programs</u> 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 <u>Combined Degree Programs</u> 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 required to complete the second degree. Students completing one of the Double Degree programs described above should consult the <u>Double Degree Programs</u> section of the Calendar since the requirements for Double Degree programs are different from the requirements for a Second Degree.

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:

- 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)Earn a cumulative grade point average of at least 2.00. If a student's CGPA falls below 2.0. s/he will be removed from the program.
- Students in their graduating session who intend to take part in the next Convocation must notify the Registrar's Office of their intention through <u>ACORN</u>. 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 <u>cfl-ua@utsc.utoronto.ca</u>)

The Language Citation will consist of a notation in the UTSC section of the transcript that reads: "Completed the requirements of the Language Citation in [Name of Language]."

### 6A.6 Degree Explorer

<u>Degree Explorer</u> 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 POSts 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 POSt(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 section 6A: Completing Your Degree).

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 POSt(s)

1. Degree students must select their Subject POSt(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 POSt(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 POSt, 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, normally by 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 <u>Registrar's Office</u> 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 limitations on program enrolment (see section 6B.6, items 1-3, below), 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.

#### 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 <u>Joint Programs</u> website. Program admission and course requirements are also described in the relevant discipline sections of the *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 Coop 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 Coop 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 section 3.2 (<u>Academic Units and Programs</u>) of this Calendar. Students should also visit the related Co-op Office website to better understand the recruitment process, Co-op fees and best practices for success:

- <u>Arts & Science Co-op</u>
- Management Co-op

### Admission to Co-op Programs:

### 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 Admission Category in their Application for Admission to an Ontario University. See the <u>Admissions and Student Recruitment</u> 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 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 and degree requirements (normally within eight four-month terms of full-time study), as well as successful completion of work-terms, as specified by the particular program. Work-terms are evaluated by the Program Supervisor, 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 selected degree;
- Complete the course requirements for the specific program;
- Complete the co-op work-term preparation course(s) and any other prerequisites for the work-term as required by the specific program;
- Maintain a cumulative grade point average (CGPA) of at least 2.5 (note that this is higher than the CGPA of 1.6 required for good standing in most non-Co-op programs);
- Receive a satisfactory evaluation for all work-term performance and work-term assignments;
- 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, see the description of the individual program in this *Calendar*.

### Status in Co-op Programs:

Status in an Arts & Science 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 whose CGPA falls below 2.5 will be placed on probation.
- Students may clear probation by achieving a CGPA of 2.5 or better in the next study session. Where the CGPA is below 2.5, but the sessional grade point average (SGPA) is at least 2.5, 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 2.5 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 whose CGPA falls below 2.3 will be removed from the Co-op program.

Status in a Management Co-op program will be determined at the end of each session (Fall, Winter, and Summer) for students who have attempted at least 4.0 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 whose CGPA falls below 2.5 will be placed on probation.
- Students may clear probation by achieving a CGPA of 2.5 or better in the next study session. Where the CGPA is below 2.5, but the sessional grade point average (SGPA) is at least 2.5, 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 2.5 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 whose CGPA falls below 2.3 will be removed from the Co-op program; and students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist program only, 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.

Status in the Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/HBSC, Specialist (Co-operative) Program in Statistics, Quantitative Finance Stream will be determined at the end of each session (Fall, Winter, and Summer) for students who have attempted at least 4.0 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.

- To remain in the Double Degree (Co-op) program students must maintain a CGPA of 2.5 or higher after having attempted at least 4.0 credits.
- Students whose CGPA falls below 2.5 will be placed on probation.
- Students may clear probation by successfully completing at least 2.0 credits (none of which can be designated as CR/NCR) and achieving a CGPA of 2.5 or better in the next study session.
- Students who cannot clear probation in two consecutive sessions, or whose CGPA falls below 2.3, will be
  removed from the Double Degree (Co-op) program; these students can pursue the Double Degree (non Co-op)
  program, or one of the constituent non Co-op Specialist programs (i.e., the BBA Specialist program in
  Management and Finance, or the BSc Specialist program in Statistics, Quantitative Finance stream).

### Work-Term Preparation Course: Introduction to Co-op Work:

Students enrolled in a Co-op program must complete Co-op work-term preparation courses as specified by their respective Co-op Office, which are designed to prepare them for their job search and work-term experience, and to maximize the benefits of their work-term. These courses 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 the work-term preparation course requirements noted by their Co-op Office before they are eligible to compete for work-terms. No academic credit is given for the courses and no additional course fee is assessed. For additional information about the work-term preparation courses, see the description of the individual program in this Calendar, and visit the related Co-op Office website.

### 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/project/assignment that will be evaluated by their Program Supervisor or an academic marker designated by their Department. The work-term report/project/assignment must be submitted to the Co-op Office no later than the deadline noted by their respective Co-op Office. 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. 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 POSt(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. Students enrolling in a Double Degree program are exempted.

3. Students may register in no more than one Co-operative program at any one time. Students enrolling in a Double Degree (Co-op) program are exempted.

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 program(s) 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 POSt, or any subsequent year. It is therefore in the student's best interest to declare the change in Subject POSt 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 POSt, 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 POSt, 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 POSt, or any subsequent year. It is therefore in the student's best interest to declare the change in Subject POSt as early as possible.

6. Students are cautioned that some programs of study are subject to higher tuition fees. These fees will be retroactively applied, and students should consult with the <u>Registrar's Office</u> in advance of making any changes.

## 6B.8 Certification of Completion of Programs

Completion of programs is certified when the degree (or degrees, in the case of the Double Degree programs) 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 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 Non-degree Previous Degree, or to 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 <u>UTSC Viewbook</u>, or consult with <u>Admissions and Student Recruitment</u> 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 <u>ACORN</u>, 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 <u>Registrar's Guide</u> or the <u>Registrar's</u> <u>Office</u> 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.

Parts of the Course Code	What it Means
Part 1: the combination created by the first three characters, for example: ANT BIO ENG PSY	<ul> <li>Identifies the discipline area the course belongs to:</li> <li>ANT refers to Anthropology</li> <li>BIO refers to Biology</li> <li>ENG refers to English</li> <li>PSY refers to Psychology</li> </ul> Refer to the Academics At-A-Glance section of the Calendar for a complete list of discipline area codes.
Part 2: the fourth character, for example:	Identifies the level of the course:
<ul> <li>A</li> <li>B</li> <li>C</li> <li>D</li> </ul>	<ul> <li>A-level corresponds to first year</li> <li>B-level corresponds to second year</li> <li>C-level corresponds to third year</li> <li>D-level corresponds to fourth year</li> </ul>
Part 3: the combination created by characters five and six, for example: • 01 • 50 • 09 • 35	These numbers may be arbitrary, or may indicate the course belongs to a sequence.
Part 4: the seventh character, for example: H Y	<ul> <li>Identifies the credit value of the course:</li> <li>H courses have a value of 0.5 credit</li> <li>Y courses have a value of 1.0 credit</li> </ul>
<ul><li>Part 5: the eighth character, for example:</li><li>3</li></ul>	Identifies the campus on which the course is offered: • 3 indicates UTSC • 1 indicates St. George/FAS • 5 indicates UTM
Part 6: the section code, for example:	Identifies the session in which the course will be taught:
<ul> <li>F</li> <li>S</li> <li>Y</li> <li>Section codes do not appear in the course code in the Calendar, but do appear next to the course code in the <u>Course Timetable</u>.</li> </ul>	<ul> <li>F = Fall (or the first semester of the Summer session)</li> <li>S = Winter (or the second semester of the Summer session)</li> <li>Y = both Fall and Winter (or both semesters of the Summer session)</li> </ul>

Other Common Notations in Calendar Descriptions: 1. Prerequisites in Square Brackets []: Square Brackets are used in prerequisites to indicate aggregate or alternate choices example:

- [MGEB01H3 or MGEB02H3] and [MGEB05H3 or MGEB06H3] indicates that students must take either MGEB01H3 or MGEB02H3 AND either MGEB05H3 or MGEB06H3 (2 courses); but
- [MGEB01H3 and MGEB02H3] or [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., (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 credits of their degree credits to be assessed on a Credit/No Credit basis. Courses identified as program requirements, or that are intended for individual study, such as supervised reading courses, are not eligible for Credit/No Credit assessment. UTSC students must choose, or cancel, this mode of assessment via ACORN no later than the last day of classes at UTSC, regardless of the division at which the course is taught. 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 <u>Course Timetable</u>.

### 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 <u>Academic Advising & Career Centre</u> before taking courses on other campuses. Similarly, some UTSC courses, including some that have been retired, may not appear in this Calendar as exclusions. If UTSC, FAS and/or UTM courses have similar titles or content, the onus is on the student to 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 program admission requirements or the degree requirements; however, if appropriate, it may be used to meet program course 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 <u>Dates and Deadlines</u> found on the Registrar's Office website; and
- May do so only through <u>ACORN</u>.

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 Registrar's Office. 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 <u>Registrar's Office</u> 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 <u>Academic Advising & Career</u> <u>Centre</u> are available to provide guidance.
- For more information about academic probation go to the <u>Registrar's Office</u> 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 <u>Dates</u> and <u>Deadlines</u>. The deadlines for adding or dropping courses are strictly applied.

- Students who make changes through <u>ACORN</u> 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 <u>Student Accounts</u>.

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 <u>ACORN</u>. Students dropping all their courses in a session may wish to speak to an academic advisor from the <u>Academic Advising & Career Centre</u> 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 <u>Registrar's Office</u> 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).

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

\*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 credits of their degree credits to be assessed on a Credit/No Credit basis. Courses identified as program requirements, or that are intended for individual study, such as supervised reading courses, are not eligible for Credit/No Credit assessment. UTSC students must choose, or cancel, this mode of assessment via ACORN no later than the last day of classes at UTSC, regardless of the division at which the course is taught. 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, 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.

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:

AEG	<ul> <li>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 work of the course with a grade of C minus or better.</li> <li>Students must petition for the assignment of an AEG grade to a course.</li> <li>Where a student is assigned AEG standing, the course counts as a credit but is not included in the CGPA.</li> <li>Students who require a letter grade will be expected to complete the work of the course.</li> </ul>	
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 onehalf 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 (SGPA) is the average of the grades in courses taken in the most recent semester (Summer, Fall, Winter).

3. A cumulative grade point average (CGPA) is the average of the grades of all courses passed or failed at UTSC.

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 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 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 (not including Credit/No Credit, Pass/Fail, or courses marked Extra). 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 <u>Academic Advising & Career Centre</u>.

## 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 <u>ACORN</u>. Official transcripts can be ordered for a fee through ACORN.

## 8. Academic Support on the UTSC Campus

## 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 that 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 <u>Centre for Teaching and Learning</u> (CTL) offers courses in academic writing for English Language Learners.

In addition to courses, UTSC offers extensive support for student writers. The UTSC <u>Writing Centre</u> 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 <u>English Language Development Centre</u> 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. <u>TA and Graduate Support</u> 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.

### <u>Library</u>

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
- <u>Scholarships & Awards</u>
- <u>Registrarial Services</u>

### 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: <u>Athletics and Recreation</u> <u>Community Police</u> <u>Equity and Diversity Office</u> <u>Health & Wellness Centre</u> <u>Information and Instructional Technology Services</u> <u>International Student Centre</u> <u>N'sheemaehn Child Care Centre</u> <u>Scarborough Campus Students' Union (SCSU)</u> <u>Sexual Harassment Office (University of Toronto)</u> <u>Student Affairs</u> <u>Student Housing and Residence Life</u> <u>Student Life</u>

## **African Studies**

### Faculty List

- H. Dinani, M.A., (Toronto), Ph.D. (Emory), Assistant Professor
- A. Hachimi, M.A. (Hawaii), Ph.D. (Hawaii), Assistant Professor
- <u>S.J. Rockel</u>, M.A., Ph.D. (Toronto), Associate Professor

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

The world cannot be understood without Africa. 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. In coming to terms with this great diversity, students will discover Africans' important contributions to the world's artistic, literary, political, and religious ideas.

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, 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 <u>AFSA01H3</u> in their first year course selection. Certain elective courses (e.g. <u>ENGD08H3</u> and <u>ENGB22H3</u>) 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 information regarding African Studies please visit the Historical and Cultural Studies website.

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **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. 1.0 credit as follows:

<u>AFSA01H3</u>/ <u>HISA08H3</u> Africa in the World: An Introduction <u>AFSB01H3</u>/ <u>HISB52H3</u> African Religious Traditions Through History

### 2. 1.0 credit from the following (students should check course descriptions for prerequisites):

AFSA03H3/ IDSA02H3 Experiencing Development in Africa

AFSB05H3/ ANTB05H3 Culture and Society in Africa

AFSB50H3/ HISB50H3 Africa in the Era of the Slave Trade

AFSB51H3/ HISB51H3 Africa from the Colonial Conquests to Independence

AFSB54H3/ HISB54H3 Africa in the Postcolonial Era

AFSC30H3/ HISC96H3 Language and Society in the Arab World

AFSC52H3/ HISC52H3 Ethiopia: Seeing History

AFSC53H3/ WSTC10H3 Women and Development

AFSC55H3/ HISC55H3 War and Society in Modern Africa

AFSC70H3/ HISC70H3 The Caribbean Diaspora

AFSC97H3/ HISC97H3 Women in Sub-Saharan Africa

AFSD07H3/ IDSD07H3 Extractive Industries in Africa

AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation

AFSD52H3/ HISD52H3 East African Societies in Transition

### 3. 2.0 credits from the following list (students should check course descriptions for prerequisites):

AFSA03H3/ IDSA02H3 Experiencing Development in Africa AFSB05H3/ ANTB05H3 Culture and Society in Africa (if not used in Requirement 2) AFSB50H3/ HISB50H3 Africa in the Era of the Slave Trade (if not used in Requirement 2) AFSB51H3/ HISB51H3 Africa from the Colonial Conquests to Independence (if not used in Requirement 2) AFSB54H3/ HISB54H3 Africa in the Postcolonial Era (if not used in Requirement 2) AFSC30H3/ HISC96H3 Language and Society in the Arab World (if not used in Requirement 2) AFSC52H3/ HISC52H3 Ethiopia: Seeing History (if not used in Requirement 2) AFSC53H3/WSTC10H3 Women and Development (if not used in Requirement 2) AFSC55H3/ HISC55H3 War and Society in Modern Africa (if not used in Requirement 2) AFSC70H3/ HISC70H3 The Caribbean Diaspora (if not used in Requirement 2) AFSC97H3/ HISC97H3 Women in Sub-Saharan Africa (if not used in Requirement 2) AFSD07H3/ IDSD07H3 Extractive Industries in Africa (if not used in Requirement 2) AFSD51H3/ HISD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation (if not used in Requirement 2) AFSD52H3/ HISD52H3 East African Societies in Transition (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 ENGB22H3 Contemporary Literature from Africa ENGC51H3 Contemporary Arab Women Writers ENGD08H3 Topics in African Literature **ENGD13H3 Rap Poetics** (ENGD61H3) James Baldwin, the African American Experience, and the Liberal Imagination FREA01H3 Language Practice I FREA02H3 Language Practice II FREB01H3 Language Practice III FREB02H3 Language Practice IV FREB35H3 Francophone Literature FREC47H3 Pidgin and Creole Languages FRED14H3 Advanced Topics in the Literature of Québec GGRB28H3 Geographies of Disease GGRC25H3 Land Reform and Development HISC34H3 Race, Segregation, Protest: South Africa and the United States HISC39H3 Hellhound on My Trail: Living the Blues in the Mississippi Delta, 1890-1945 HISD50H3 Southern Africa: Conquest and Resistance, 1652-1900 (LGGA40H3) Introductory Modern Standard Arabic I (LGGA41H3) Introductory Modern Standard Arabic II (LGGB42H3) Intermediate Modern Standard Arabic I (LGGB43H3) Intermediate Modern Standard Arabic II (LGGB45H3) Modern Standard Arabic I for Students with Prior Background POLC80H3 International Relations of Africa VPHB50H3 Africa through the Photographic Lens (VPHB65H3) Exhibiting Africa: Spectacle and the Politics of Representation WSTC13H3 Women, Gender and Islam

**Note**: Not all courses in Requirement #2 and #3 are offered every year.

### **African Studies Courses**

## AFSA01H3 - Africa in the World: An Introduction

An interdisciplinary introduction to the history and development of Africa 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, Geography, Literature, Film Studies, and Women's Studies.

Same as HISA08H3

**Exclusion:** HISA08H3, NEW150Y **Breadth Requirements:** 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 Requirements: Social & Behavioural Sciences

### AFSB01H3 - African Religious Traditions Through History

An interdisciplinary introduction to African and African diasporic religions in historic context, including traditional African cosmologies, Judaism, Christianity, Islam, as well as millenarian and synchretic religious movements.

Same as HISB52H3

Exclusion: HISB52H3, (AFSA02H3) Recommended Preparation: AFSA01H3/ HISA08H3 Breadth Requirements: 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 Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

## AFSB51H3 - Africa from the Colonial Conquests to Independence

Modern Sub-Saharan Africa, from the colonial conquests to the end of the colonial era. The emphasis is on both structure and agency in a hostile world. Themes include conquest and resistance; colonial economies; peasants and labour; gender and ethnicity; religious and political movements; development and underdevelopment; Pan-Africanism, nationalism and independence. Same as HISB51H3

Exclusion: HISB51H3, (HISC51H3), HIS396H, (HIS396Y)

**Recommended Preparation:** AFSA01H3/ HISA08H3 or AFSB50H3 or HISB50H3 strongly recommended. **Breadth Requirements:** History, Philosophy & Cultural Studies

# AFSB54H3 - Africa in the Postcolonial Era

Africa from the 1960s to the present. After independence, Africans experienced great optimism and then the disappointments of unmet expectations, development crises, conflict and AIDS. Yet the continent's strength is its youth. Topics include African socialism and capitalism; structural adjustment and resource economies; dictatorship and democratization; migration and urbanization; social movements. Same as HISB54H3

Prerequisite: AFSA01H3 or AFSB51H3 or 0.5 credit in Modern History Exclusion: HISB54H3, NEW250Y1 Breadth Requirements: 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## AFSC53H3 - 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. Same as WSTC10H3

Prerequisite: [AFSA03H3/ IDSA02H3 or IDSB01H3 or IDSB02H3] or [[WSTA01H3 or WSTA03H3 ] and [an additional 0.5 credit in WST courses]] Exclusion: WSTC10H3 Breadth Requirements: Social & Behavioural Sciences

# 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

**Prerequisite:** Any 4.0 credits, including: AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 or (HISC50H3) or (HISC51H3)

### Exclusion: HISC55H3

**Breadth Requirements:** History, Philosophy & Cultural Studies

## AFSC70H3 - 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 Wards, evolving imperial relationships, pan-Africanism and international unionism, decolonization, natural disasters, and globalization shaped this migration. Same as HISC70H3

**Prerequisite:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses **Exclusion:** NEW428H, HISC70H3 **Breadth Requirements:** History, Philosophy & Cultural Studies

### AFSC97H3 - Women in Sub-Saharan Africa

This course examines women in Sub-Saharan Africa in the pre-colonial, colonial and postcolonial periods. It covers a range of topics including slavery, colonialism, prostitution, nationalism and anti-colonial resistance, citizenship, processes of production and reproduction, market and household relations, and development. Same as HISC97H3

Prerequisite: Any 4.0 credits, including: AFSA01H3/ HISA08H3 or AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 Exclusion: HISC97H3 Breadth Requirements: 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 Requirements: 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 Requirements: History, Philosophy & Cultural Studies

# AFSD52H3 - East African Societies in Transition

A seminar study of East African peoples from late precolonial 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.

Same as HISD52H3

Prerequisite: 8.0 credits including AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 or HISC55H3 Exclusion: HISD52H3 Enrolment Limits: 15 Breadth Requirements: 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
- <u>G. Daswani</u>, 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, Teaching Stream
- 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), Professor
- <u>M. Schillaci, B.A. (New Mexico), M.A. (Toronto), Ph.D. (New Mexico), Associate Professor</u>
- 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

### 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 in all its varieties. 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 relatively remote and small-scale societies, complex civilizations, and contemporary global and transnational interconnections.

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, Linguistic Anthropology, and Archaeology. At the present time, University of Toronto Scarborough offers programs within two major streams: Socio-cultural and Evolutionary Anthropology. 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 <u>ANTA01H3</u> and <u>ANTA02H3</u> 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.

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## 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 (<u>ANTC04H3</u>, <u>ANTD32H3</u>). 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 credits, as indicated below.

### 1. 1.0 credit as follows:

<u>ANTA01H3</u> Introduction to Anthropology: Becoming Human <u>ANTA02H3</u> 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: <u>ANTB14H3</u> and <u>ANTB15H3</u> 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 (<u>ANTC03H3</u>, <u>ANTD31H3</u>). 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 credits, as indicated below

### 1. 1.0 credit as follows:

<u>ANTA01H3</u> Introduction to Anthropology: Becoming Human <u>ANTA02H3</u> Introduction to Anthropology: Society, Culture and Language

### 2. ANTB19H3 Ethnography and the Comparative Study of Human Societies

### 3. ANTB20H3 Culture, Politics and Globalization

**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. Students must ensure that as part of Requirement 4, they complete:** a. At least 1.0 credit in area studies courses: <u>ANTB05H3, ANTB16H3, ANTB18H3, ANTB65H3, ANTC89H3, ANTD07H3</u>

b. At least 0.5 credit in Ethnographic methods: ANTC70H3

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**: <u>ANTB19H3</u> and <u>ANTB20H3</u> 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 credits in Anthropology including:

### 1. 1.0 credit as follows:

<u>ANTA01H3</u> Introduction to Anthropology: Becoming Human <u>ANTA02H3</u> Introduction to Anthropology: Society, Culture and Language

### 2. ANTB14H3 Biological Anthropology: Beginnings

3. ANTB15H3 Contemporary Human Evolution and Variation

4. 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: <u>ANTB14H3</u> and <u>ANTB15H3</u> 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 credits in Anthropology including:

### 1. 1.0 credit as follows:

<u>ANTA01H3</u> Introduction to Anthropology: Becoming Human <u>ANTA02H3</u> Introduction to Anthropology: Society, Culture and Language

### 2. ANTB19H3 Ethnography and the Comparative Study of Human Societies

### 3. ANTB20H3 Culture, Politics and Globalization

## 4. 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 <u>ANTB05H3</u>, <u>ANTB16H3</u>, <u>ANTB18H3</u>, <u>ANTB65H3</u>, <u>ANTC89H3</u>, <u>ANTD07H3</u> b. <u>ANTC70H3</u>

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:** <u>ANTB19H3</u> and <u>ANTB20H3</u> 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 credits as follows:

**1. 1.0 credits as follows:** <u>ANTA01H3</u> Introduction to Anthropology: Becoming Human <u>ANTA02H3</u> 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 Requirements: 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 Requirements: 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 ethnoecology, 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 Requirements: 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 AFSB05H3 Area course

Prerequisite: ANTA02H3 or AFSA01H3 Exclusion: AFSB05H3 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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] **Breadth Requirements:** Social & Behavioural Sciences

# 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 Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## 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

Breadth Requirements: Social & Behavioural Sciences

## ANTB35H3 - Kids These Days: Youth, Language and Media

Across the globe, youth represent both positive and negative aspects of the future. Drawing on ethnographic examples from many cultural contexts, this course asks how youthful generations form around changing language and new media technologies. Topics include: gender, sexuality, indigeneity, race/ethnicity, class, diaspora. Same as MDSB09H3

Prerequisite: ANTA02H3 or MDSA01H3 Exclusion: (ANTB21H3), MDSB09H3 Breadth Requirements: Arts, Literature & Language

# 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 Requirements: Social & Behavioural Sciences

## ANTB64H3 - The Anthropology of Foods

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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements: Social & Behavioural Sciences

# 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## ANTC27H3 - Primate Sociality

Primates are an intensely social order of animals showing wide variation in group size, organization and structure. Using an evolutionary perspective, this course will focus on why primates form groups and how their relationships with different individuals are maintained, with reference to other orders of animals. The form and function of different social systems, mating systems, and behaviours will be examined.

Prerequisite: ANTB22H3 Breadth Requirements: Natural 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements:** Natural Sciences

## ANTC42H3 - Human Growth, Development and Adaptability

Human adaptability refers to the human capacity to cope with a wide range of environmental conditions. Emphasis is placed on human growth and development in stressed and non-stressed environments. Case studies are used extensively. Science credit

Prerequisite: ANTC41H3 Breadth Requirements: Natural Sciences

## 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: ANT334H, ANT334Y Enrolment Limits: 33 Breadth Requirements: 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 Requirements: 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 Enrolment Limits: 60 Breadth Requirements: 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 ACMB01H3] Exclusion: MDSC53H3 Enrolment Limits: 60 Breadth Requirements: Arts, Literature & Language
## ANTC58H3 - Constructing the Other: Orientalism through Time and Place

This course reflects on the concept of *Orientalism* and how it informs the fields of Classical Studies and Anthropology. Topics to be discussed include the Orientalization of the past and the origin, role, and significance of ancient representations of the "Other" in contemporary discourses. Same as CLAC68H3 and HISC68H3

Prerequisite: 1.0 credit from the following: [CLAA04H3/ HISA07H3, CLAB05H3/ HISB10H3, CLAB06H3/ HISB11H3, ANTA02H3, ANTB19H3, ANTB20H3, HISB02H3, AFSB50H3/ HISB50H3, AFSB51H3/ HISB51H3, HISB53H3, HISB57H3, HISB58H3, HISB60H3, HISB61H3, HISB62H3, HISB93H3, HISB94H3] Exclusion: CLAC68H3, HISC68H3 Exclusion: CLAC68H3, HISC68H3

Enrolment Limits: 40

**Breadth Requirements:** History, Philosophy & Cultural Studies

## ANTC59H3 - Anthropology of Language and Media

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 MDSC21H3

Prerequisite: [ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3 and ACMB01H3] Exclusion: (ANTB21H3), (MDSB02H3), MDSC21H3 Breadth Requirements: Arts, Literature & Language

### 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 illness, 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 Requirements: 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 **Breadth Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** 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.

### ANTC70H3 - Ethnographic Methods in Anthropology: Past, Present, and Future

This course is an exploration of the ongoing significance of the ethnographic method to the practice of research in socio-cultural anthropology. How and why have ethnographic methods become so central to anthropology, and what can we continue to learn with them? Students complement readings and lectures on theories and practices of ethnographic methods, both historical and contemporary, with exercises and assignments designed to provide first-hand experience in carrying out various techniques of ethnographic research. We also consider the unique ethical challenges of ethnographic methods and what it means to conduct ethically sound research.

**Prerequisite:** ANTB19H3 and ANTB20H3 and at least 0.5 credit at the C-level in socio-cultural anthropology courses **Exclusion:** (ANTC60H3) **Enrolment Limits:** 40

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students in the Specialist in Anthropology, followed by students in the Major in Anthropology, followed by students in the Specialist programs in International Development Studies.

### ANTC80H3 - Race and Racism: Anthropological Insights

This course explores ideas of race and racist practice, both past and present. Socio-cultural perspectives on race and racism must address a central contradiction: although biological evidence suggests that racial categories are not scientifically valid, race and racism are real social phenomena with real consequences. In order to address this contradiction, the course will examine the myriad ways that race is produced and reproduced, as well as how racism is perpetuated and sustained.

Prerequisite: ANTB19H3 and ANTB20H3 Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## ANTC89H3 - 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 individual research projects of their own design. The course provides students with the opportunity to present and discuss their unfolding research, as well as to present the findings of their research. This course is completed over two terms, and culminates in an original research paper.

Prerequisite: [ANTB19H3 and ANTB20H3 and [(ANTC60H3) or ANTC70H3]] and [an additional 1.0 credit at the C-level in socio-cultural anthropology] and [a cumulative GPA of 2.7, or permission of the instructor]. Preference will be given to Specialists and Majors in Anthropology, in that order. Exclusion: (ANTD05Y3) Enrolment Limits: 15 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements:** Natural Sciences

## **ANTD19H3 - Primate Conservation**

A large percentage of nonhuman primate species are at risk of extinction due mostly to human-induced processes. Relying on theory from Conservation Biology, this course will consider the intrinsic and extrinsic factors that lead to some primate species being threatened, while others are able to deal with anthropogenic influences. Students will critically examine conservation tactics and the uniqueness of each situation will be highlighted.

Prerequisite: ANTB22H3 Enrolment Limits: 25 Breadth Requirements: 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) or ANTC70H3 Enrolment Limits: 15 Breadth Requirements: Social & Behavioural Sciences

## ANTD22H3 - Theory and Methodology in Primatology

This seminar course will examine contemporary theory and questions in primatology and carefully examine the types of data that researchers collect to answer their research questions. Science credit

Prerequisite: ANTB22H3 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, crosscultural, 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 Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements: Natural Sciences

# Applied Microbiology (formerly Industrial Microbiology)

The Specialist (Joint) Program in Applied Microbiology is closed effective the 2018-2019 academic year.

## **Applied 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 Requirements:** 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 Requirements: 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 and CHMA11H3 **Breadth Requirements:** 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 Requirements: 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 and IMCB02H3 **Breadth Requirements:** 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 anti-microbial effectiveness of disinfectants, preservatives, and antibiotics. Limited to students in the Joint Program in Applied Microbiology.

Prerequisite: IMCB04H3 Breadth Requirements: 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 Requirements: 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 Requirements: 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 and IMCB06H3 **Breadth Requirements:** 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 Requirements: 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 Requirements: 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 Requirements: Natural Sciences

## **Art History and Visual Culture**

#### Program Director: E. Webster Email: <u>webster@utsc.utoronto.ca</u> Program Advisor: M. Hussain Email: <u>mhussain@utsc.utoronto.ca</u>

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, 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 can be reviewed here.

#### 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 <u>VPHA46H3</u> in their first year course selection. <u>VPHA46H3</u> 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 <u>VPHB39H3</u> and <u>ACMB01H3</u> 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. Students are encouraged to choose their courses from one or two of these areas.

Creative Cities	Spectacle and Display	Dialogues with History	Constructing Identities
VPHB58H3 Modern Art and Culture VPHB68H3 Art and the Everyday: Mass Culture and the Visual Arts VPHB74H3 Art in Early Modern Europe: Renaissances Outside of Italy VPHC42H3 Gothic Art and Architecture VPHC68H3 Art in Global Cities VPHC74H3 A Tale of Three Cities: Introduction to	VPHB59H3 Current Art Practices VPHB73H3 Visualizing Asia VPHB78H3 Our Town, Our Art: Local Collections I VPHB79H3 Our Town, Our Art: Local Collections II VPHC53H3 The Silk Routes	VPHB53H3 Medieval Art VPHB63H3 Fame, Glory and Spectacle: 14th-16th Century Art in Italy VPHC63H3 Explorations in Early Modern Art VPHC41H3 Carolingian and Romanesque Art and Architecture VPHC52H3 Ethiopia: Seeing History VPHD48H3 Advanced Seminar in Art	VPHB50H3 Africa Through the Photographic Lens VPHB64H3 Baroque Visions VPHB77H3 Modern Asian Art VPHC75H3 The Artist, Maker, Creator VPHC45H3 Seminar in Modern and Contemporary Art VPHC73H3 Home, Away and In Between: Artists, Art, and Identity
Contemporary Art in China		History and Visual Culture	

#### Art History and Visual Culture Areas of Focus Table:

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### 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):

<u>VPHB39H3</u> Ten Key Words in Art History: Unpacking Methodology <u>ACMB01H3</u> 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: <u>VPHB53H3</u>, <u>VPHB63H3</u>, <u>VPHB64H3</u>, <u>VPHB74H3</u>, <u>VPHC41H3</u>, <u>VPHC42H3</u>, <u>VPHC53H3</u>, (<u>VPHD44H3</u>)

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

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: <u>VPHB68H3</u>, <u>VPHB78H3</u>, <u>VPHB79H3</u>, <u>VPHC49H3</u>, (<u>VPHC51H3</u>), <u>VPHC54H3</u>, <u>VPHC75H3</u> and <u>VPHD48H3</u>.

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):

<u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs <u>VPHB39H3</u> 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements: 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 differnt 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 ars and their framing?

Prerequisite: VPHA46H3 Exclusion: FAH245H, FAH246H Breadth Requirements: 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 Exclusion: FAH245H, FAH246H Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 GASA01H3 **Exclusion:** GASB73H3, FAH260H **Breadth Requirements:** 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 Requirements: 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, translingual practices, and multiple modernism. Same as GASB77H3

**Prerequisite:** ACMA01H3 or VPHA46H3 or GASA01H3 **Exclusion:** GASB77H3, FAH262H **Breadth Requirements:** 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 issues using a focused collection in the Royal Ontario Museum, the Aga Khan Museum or the Textile Museum.

Prerequisite: VPHA46H3 Breadth Requirements: Arts, Literature & Language

## 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 Requirements:** Arts, Literature & Language **Note:** Some classes will be held at the museum; students should be prepared to travel.

#### VPHC41H3 - Carolingian and Romanesque Art

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 Requirements: 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 ACMB01H3 Exclusion: FAH328H, FAH351H (UTM only), (FAH369H) Breadth Requirements: 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 Blevel.

Breadth Requirements: 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 ACMB01H3 Corequisite: 1.0 credit at the B-level in VPH and/or VPS courses

Breadth Requirements: 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 ACMB01H3 and an additional 1.0 credit in VPH courses] Exclusion: AFSC52H3, HISC52H3

Breadth Requirements: 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 Requirements: 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 Requirements: Arts, Literature & Language

## VPHC63H3 - 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 and [one of VPHB63H3 or VPHB64H3 or VPHB74H3]. Enrolment Limits: 15 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 selfrenovation 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 Requirements:** 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 Requirements:** 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 Requirements:** 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, 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
- K. Burchell, B.A. (McGill), M.Sc. (London), Ph.D. (Goldsmiths), Assistant Professor
- T.L. Cowan, B.A. (Simon Fraser), M.A. (Alberta), Ph.D. (Alberta), Assistant Professor
- J. Dvorkin, B.A. Hon. (Alberta), M.A.(Toronto), M. Phil. (London), Lecturer
- B. Freeman, B.A., M.A., Ph.D., Assistant Professor
- M. Gervers, A.B. (Princeton), M.A. (Poitiers), Ph.D. (Toronto), Professor
- G. Graffam, M.A., Ph.D. (Toronto), Lecturer
- Y. Gu, M.Phil., Ph.D. (London), Associate Professor
- E. Harney, M.A. (Harvard), M.A. (Washington), 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
- <u>A. Irving</u>, B.F.A. (Nova Scotia College of Art and Design), M.F.A. (York), 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
- T. Mars , Associate Professor, Teaching Stream
- J. Mayo, M.A., Ph.D. (Toronto), Associate Professor
- <u>K.A. McLeod</u>, M.A.(McMaster), Ph.D. (McGill), Associate Professor
- D. Nieborg, B.A. (Utrecht), M.A. (Utrecht) Ph.D. (Amsterdam), Assistant Professor
- <u>M. Petit</u>, M.A., Ph.D. (Colorado), Associate Professor, Teaching Stream
- <u>A. Rapoport</u>, Mus.M., Mus.Doc. (Toronto), Senior Lecturer
- A. Sanger, B.A. (Dartington), Ph.D. (Queen's, Belfast), Lecturer
- P. Sperdakos, B.A. (McGill), M.A., Ph.D. (Toronto), Associate Professor
- <u>A. Stanbridge</u>, M.A. (Wolverhampton), Ph.D. (Carleton), Associate Professor
- <u>L.C. Tucker</u>, B.Mus., B.Mus.Ed. (Memorial), M.Mus.Mus.Ed, M.Mus. Perf. (Wisconsin-Madison), Associate Professor, Teaching Stream
- E. Webster, B.A., M.A. (Toronto), Ph.D. (Case Western Reserve), Associate Professor, Teaching Stream
- <u>L. Whiting</u>, Dip.Op.Perf. (Toronto), Lecturer
- <u>K. Wright</u>, Lecturer

The Department of Arts, Culture and Media (ACM) houses nine distinct disciplines: Art History, Arts Management, Curatorial Studies, Journalism, Media Studies, New Media Studies, Music and Culture, Studio, and Theatre and Performance Studies. Faculty research and 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. ACM also hosts an array of special events and cultural programming through the year, and students are invited to join our departmental students' association, ARTSA.

All students are invited to take <u>ACMA01H3</u> to meet breadth requirements in Arts, Literature & Language. The course offers an overview of critical, historical and practice-based approaches to text, image, sound and performance.

<u>ACMB01H3</u> is designed for students enrolled in programs offered by the Department of Arts, Culture and Media. The course focuses on the development of critical reading, thinking and writing skills necessary for research and inquiry in the Humanities. All ACM students are encouraged to take <u>ACMB02H3</u>.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

#### Arts, Culture And Media Courses

## ACMA01H3 - Exploring Key Questions in the 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 Requirements: 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 practicebased 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 Requirements:** 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.

#### Corequisite: ACMB01H3

Exclusion: (ACMA02H3)

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Students in the Specialist (Joint) program in Journalism, and in the Journalism Studies Stream of the Major in Media, Journalism and Digital Cultures are encouraged to take ACMB01H3 and ACMB02H3 in the same semester.

## ACMB10H3 - Equity and Diversity in the Arts

Equity and diversity in the arts promotes diversity of all kinds, including those of race, gender, socio-economic status, sexual orientation or identity, age, ability or disability, religion, and aesthetics, tradition or practice. This course examines issues of equity and diversity and how they apply across all disciplines of arts, culture and media through critical readings and analysis of cultural policy.

**Prerequisite:** Any 4.0 credits **Exclusion:** (VPAB07H3)

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enroled in Specialist and Major Programs offered by the Department of Arts, Culture & Media. Other students will be admitted as space permits.

## 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 Requirements: 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 Requirements:** 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 Requirements: 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 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:** (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)

## ACMD99H3 - Work Integrated Learning for Arts Culture and Media Programs

This course offers students the opportunity to integrate academic learning with an internship placement appropriate to students' field of study within the Department of Arts, Culture and Media. The 0.5 credit, two-term course provides students an understanding of workplace dynamics while allowing them to refine and clarify professional and career goals through critical analysis of their work-integrated learning experience.

**Prerequisite:** 8.0 credits in courses offered by the Department of Arts, Culture and Media; CGPA of at least 3.0; permission of the Arts Culture and Media Internship Coordinator

**Breadth Requirements:** History, Philosophy & Cultural Studies

## **Arts Management**

Program Advisor: M. Hussain, Email: mhussain@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.

The Specialist (Co-operative) Program in Arts Management is suspended to new enrolments. Students who are already enrolled in the Program should consult the 2012-13 *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Arts Management Programs**

### SPECIALIST PROGRAM IN ARTS MANAGEMENT (ARTS)

Undergraduate Advisor: arts-management-program-director@utsc.utoronto.ca

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 transferable 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 <u>www.utsc.utoronto.ca/artsmanagement/</u>

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.

#### **Enrolment Requirements**

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 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 Managementspecific 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)

<u>VPAA06H3</u> Visual and Performing Arts Management in the Digital Age
<u>VPAA10H3</u> Introduction to Arts Management
<u>VPAA12H3</u> Audience and Resource Development
<u>ACMB10H3</u> Equity and Diversity in the Arts
<u>VPAB13H3</u> Financial Management for Arts Managers
<u>VPAB16H3</u> Managing and Leading in Cultural Organizations
<u>VPAB17H3</u> From Principles to Practices in Arts Management
<u>VPAC13H3</u> Planning and Project Management in the Arts and Cultural Sector
<u>VPAC15H3</u> Cultural Policy
<u>VPAC16H3</u> Legal and Human Resource Issues in Arts Management
[<u>VPAC17H3</u> Arts Marketing OR <u>VPAC18H3</u> Fundraising and Development in the Arts]
<u>VPAD12H3</u> Senior Seminar in Arts Management

#### 2. Management Courses (1.5 credits)

<u>MGTA01H3</u>/(<u>MGTA03H3</u>) Introduction to Business <u>MGTA02H3</u>/(<u>MGTA04H3</u>) 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: <u>MGHC23H3</u>, <u>MGHC23H3</u>, <u>MGTC33H3</u>, <u>MGTC44H3</u> and <u>MGTD45H3</u>. 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)

[6.0 credits from within the Major program in one of the artistic disciplines offered by the Department of Arts, Culture and Media (Art History, Music and Culture, Studio, and Theatre & Performance Studies). At least 1.0 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 1.0 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 fulfil 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 1.5 credits as follows:

4. (1.5 credits)
 <u>VPAB05H3</u> Introduction to Contemporary Cultural Theory and
 1.0 credit from the following:
 <u>VPAB15H3</u> Arts Education and Outreach
 [<u>VPAC17H3</u> Arts Marketing OR <u>VPAC18H3</u> Fundraising and Development in the Arts (whichever one is not fulfilling the requirements in the Core Courses)]

<u>VPAC21H3</u> Special Topics in Arts Management I <u>VPAC22H3</u> Special Topics in Arts Management II <u>VPAD07H3</u> Agency & Pluralism in Social & Cultural Transformations <u>VPAD14H3</u> 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 component 2 (Management Courses) or component 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)

<u>ACMC01H3</u> ACMEE Applied Practice I (to be taken concurrently with, or after, Field Placement I) <u>ACMD01H3</u> ACMEE Applied Practice II (to be taken concurrently with, or after Field Placement II) and 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

 ACMD02H3
 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 credits (10 courses - five in each of the Fall and Winter semesters) including <u>VPAA10H3</u>, <u>VPAA12H3</u>, <u>VPAA06H3</u>, <u>MGTA01H3</u>, <u>MGTA02H3</u>, at least three courses from the "Arts Courses" section of the program requirements, and electives. <u>ACMB01H3</u> 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 <u>VPAB13H3</u>, <u>VPAB16H3</u> and <u>VPAB17H3</u>, <u>ACMB01H3</u> (if not already taken, B-level courses from the "Arts Courses" program requirement, and electives. Arts Management students are encouraged to consider <u>ACMB02H3</u> as one of their elective choices.

### 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 and Media Programs) and Humanities and Social Sciences (Co-op)

Breadth Requirements: 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 Requirements: 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 Requirements: 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 [SOCB58H3 and an additional 4.0 credits] **Breadth Requirements:** History, Philosophy & Cultural Studies

## 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: MGTB03H3 Recommended Preparation: VPAA12H3 or [(VPAB12H3) and (VPAB14H3)] Breadth Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements:** 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 ACMB10H3 Breadth Requirements: 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

#### **Faculty List**

- <u>P. Artymowicz</u>, 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
- <u>C.C. Dyer</u>, 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
- <u>K. Menou</u>, B.Sc. (Angers), M.Sc. (Toulouse), Ph.D. (Paris XI) Associate Professor
- <u>H. Rein</u>, 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 <u>ASTA01H3</u> and <u>ASTA02H3</u> at a level suitable for students without mathematical background. In addition, the course <u>ASTB03H3</u> 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

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

#### **Astronomy Programs**

### MINOR PROGRAM IN ASTRONOMY AND ASTROPHYSICS (SCIENCE)

Supervisor: J. Bayer (416-287-7327) Email: jbayer@utsc.utoronto.ca

#### Program Requirements Students must complete 5.0 credits as follows:

<u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA21H3</u> Physics II for the Physical Sciences <u>MATA23H3</u> Linear Algebra I <u>MATA30H3</u> Calculus I for Physical Sciences [<u>MATA36H3</u> Calculus II for Physical Sciences *or* <u>MATA37H3</u> Calculus II for Mathematical Sciences] <u>ASTB23H3</u> Astrophysics of Stars, Galaxies and the Universe <u>ASTC25H3</u> Astrophysics of Planetary Systems <u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>MATB42H3</u> Techniques of the Calculus of Several Variables II [<u>PHYD01H3</u> Research Project in Physics and Astrophysics or <u>PHYD72H3</u> Supervised Reading in Physics and Astrophysics or any other AST C- or D-level course]

#### **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 groundbased 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 Requirements: 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 largescale 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 Requirements: 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 Requirements: Natural Sciences

## ASTB23H3 - Astrophysics of Stars, Galaxies and the Universe

Overview of astrophysics (except planetary astrophysics). Appropriate level for science students. Structure and evolution of stars, white dwarfs, neutron stars. Structure of Milky Way. Classification of galaxies. Potential theory, rotation curves, orbits, dark matter. Spiral patterns. Galaxy clusters. Mergers. Black holes in active galactic nuclei. Expansion of universe, dark energy.

Prerequisite: MATA30H3 and [ MATA36H3 or MATA37H3] and PHYA21H3 Corequisite: MATB41H3 Exclusion: ( ASTB21H3), ( ASTC22H3), [AST221H and AST222H] Breadth Requirements: 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 Requirements: Natural Sciences

## ASTC25H3 - Astrophysics of Planetary Systems

Overview of planetary astrophysics at a level appropriate for science students. Planets as a by-product of star formation: theory and observations.

Protostellar/protoplanetary disks. Planetesimal and planet formation. Solar system versus extrasolar planetary systems. Giant planets, terrestrial planets, dwarf planets and minor bodies in the Solar System: interiors and environments.

Prerequisite: MATB41H3 and PHYA21H3 Corequisite: MATB42H3 Exclusion: (ASTB21H3), (ASTC22H3), [AST221H and AST222H] Breadth Requirements: 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., Ph.D. (Toronto), Associate Professor, Teaching Stream
- M.W. Cadotte, B.Sc., M.Sc. (Windsor), Ph.D. (Tennessee), 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
- <u>S. Erb</u>, 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
- <u>M.J. Fitzpatrick</u>, 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
- <u>C. Guzzo</u>, B.Sc., Ph.D. (Queen's), Assistant Professor
- R.E. Harrison, B.Sc. (Winnipeg), M.Sc. (Manitoba), Ph.D. (Toronto), Professor
- <u>C.A. Hasenkampf</u>, B.Sc. (Loyola), M.Sc., Ph.D. (Florida State), Professor
- <u>K. Kerman</u>, B.Sc., M.Sc. (Aegean), Ph.D. (Japan Advanced Institute of Science & Technology), Associate Professor
- N.R. Lovejoy, B.Sc., M.Sc. (Toronto), Ph.D. (Cornell), Associate Professor
- J.S. MacIvor, B.Sc. (Guelph), M.Sc. (Saint Mary's), Ph.D. (York), Assistant Professor
- N.E. Mandrak, B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor
- A.C. Mason, B.Sc. (Guelph), M.Sc., Ph.D. (Toronto), Professor
- P. McGowan, B.Sc. (Concordia), M.A., Ph.D. (Duke), Associate 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
- <u>K.N. Persaud, B.Sc. (Toronto)</u>, 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
- R. Sturge, B.Sc., M.Sc. (Toronto), Ph.D. (UMBC), Assistant 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
- <u>B. Treanor</u>, B.Sc. (Calgary), Ph.D. (Imperial College London), Assistant Professor
- <u>G.C. Vanlerberghe</u>, B.Sc., M.Sc. (Western Ontario), Ph.D. (Queen's), Professor
- J.T. Weir, Ph.D. (UBC), Associate Professor
- K.C. Welch, B.Sc. (Trinity University), M.A., Ph.D. (Santa Barbara), Associate Professor
- <u>D.D. Williams</u>, 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
- X. Zhang, B.Sc., M.Sc. (Shanghai), Ph.D. (Basel), Assistant Professor
- <u>R. Zhao</u>, B.Sc. (Peking University), Ph.D. (Chinese Academy of Agricultural Sciences), Associate Professor

Associate Chair Undergraduate: Aarthi Ashok until June 30, 2018; Shelley Brunt effective July 1, 2018 *Email:* <u>biosciassoc-chair-undergrad@utsc.utoronto.ca</u>

#### Overview

Biological Sciences offers five Specialist programs: Conservation and Biodiversity; Molecular Biology and Biotechnology (includes a Co-op analog program); 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 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 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 Specialist (Joint) 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. The Specialist (Joint) 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 <u>Department of Biological Sciences website</u>.

#### **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 interested in completing a double Major may combine any two of the following programs offered by the Department of Biological Sciences; Major in Conservation and Biodiversity (Science), Major in Human Biology (Science); Major in Molecular Biology, Immunology and Disease (Science); and Major in Plant Biology (Science). Although students are permitted to combine these programs, anyone considering doing so is strongly encouraged to complete one of the Department's Specialist programs instead.

The Major in Biology (Science) cannot be combined with any other Major program offered by the Department of Biological Sciences. The Minor program in Biology (Science) cannot be combined with any Major or Specialist programs offered by the Department of Biological Sciences.

#### **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.

Some courses in Biological Sciences (BIO) may include Ancillary fees.

#### Second Year Core Courses

Students are STRONGLY advised to take ALL of the second year core courses [BIOB10H3, BIOB11H3, (BIOB30H3), (BIOB31H3), <u>BIOB34H3</u>, <u>BIOB38H3</u>, <u>BIOB50H3</u>, <u>BIOB51H3</u>] as well as a core lab courses [<u>BIOB12H3</u> or <u>BIOB32H3</u> or <u>BIOB33H3</u> or <u>BIOB52H3</u>] during their second 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 second year can result in course timetabling conflicts and unfavorable exam schedules (e.g. back-to-back exams) in your upper years.

#### 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.

<u>BIOD95H3</u> Supervised Study in Biology <u>BIOD98Y3</u> Directed Research in Biology <u>BIOD99Y3</u> Directed Research in Biology

#### Service Learning and Outreach

Please note that several faculty in Biological Sciences offer experiential learning opportunities in their courses (In-reach) which are advertised though this site: <u>http://www.utsc.utoronto.ca/ctl/current-placement-opportunities</u>. For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Biological Sciences Programs**

#### SPECIALIST PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)

Supervisor: 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 was formerly known as the Specialist in Biodiversity, Ecology & Evolution (BSc).

#### **Enrolment Requirements**

Students apply to the Specialist Program in Conservation and Biodiversity after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics and with a minimum cumulative grade point average (CGPA) of at least 2.0.

Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

#### **Program Requirements**

This program consists of 14.5 required credits.

#### A. Required Courses

*First Year* **1.10 Credit of Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

#### 2. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 3. 1.0 Credit in Mathematics

Choose from:

[ <u>MATA29H3</u> Calculus I for the Life Sciences and <u>MATA35H3</u> Calculus II for Biological Sciences] or [ <u>MATA30H3</u> Calculus I for Physical Sciences and <u>MATA36H3</u> Calculus II for Physical Sciences]

#### 4. 0.5 Credit in Physics

Choose from: <u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA11H3</u> Physics I for the Life Sciences

#### 5. 0.5 Credit in Computer Science

Choose from: <u>CSCA08H3</u> Introduction to Computer Science I (most appropriate course for computer science students) <u>CSCA20H3</u> 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

6. 3.0 Credits of Biology Core Courses <u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes [<u>BIOB34H3</u> Animal Physiology or (<u>BIOB30H3</u>) Mammalian Physiology I] [<u>BIOB38H3</u> Plants and Society or (<u>BIOB31H3</u>) Plant Physiology] <u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology

#### 7. 0.5 Credit of Biology Core Labs

BIOB52H3 Ecology and Evolutionary Biology Laboratory

#### 8. 0.5 Credit in Statistics

Choose from: <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

Third Year

9. 2.0 Credits of C-level Ecology and Evolution Foundation Courses <u>BIOC16H3</u> Evolutionary Genetics and Genomics <u>BIOC50H3</u> Macroevolution <u>BIOC59H3</u> Advanced Population Ecology <u>BIOC61H3</u> Community Ecology and Environmental Biology

Third/Fourth Year

10. 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 Biodiversity and Conservation BIOD54H3** Applied Conservation Biology **BIOD59H3 Models in Ecology and Conservation 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 CoursesChoose from:BIOC37H3Plants: Life on the Edge(BIOC38H3)Plants and SocietyBIOC40H3Plant PhysiologyBIOC54H3Animal BehaviourBIOC62H3BIOD62H3Fungal Biology & PathogenesisBIOD33H3Comparative Animal PhysiologyBIOD37H3Biology of Plant StressBIOD43H3Animal Movement and ExerciseBIOD45H3Animal CommunicationBIOD48H3OrnithologyBIOD53H3Special Topics in Behavioural EcologyEESC30H3Environmental 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. <u>BIOD95H3</u> Supervised Study in Biology <u>BIOD98Y3</u> Directed Research in Biology <u>BIOD99Y3</u> Directed Research in Biology

## SPECIALIST PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Supervisor: S.G. Reid Email: human-biology@utsc.utoronto.ca

The Specialist in Human Biology 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.

#### **Enrolment Requirements**

Students apply to the Specialist Program in Human Biology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics and with a minimum cumulative grade point average (CGPA) of at least 2.0. Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: http://www.utsc.utoronto.ca/registrar/programs.

#### Program Requirements

This Program consists of 14.5 credits.

#### **Required Courses and Suggested Course Sequence**

*First Year* **1. 1.0 credit in Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

#### 2. 1.0 credit in Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 3. 1.0 credit in Mathematic

[ <u>MATA29H3</u> Calculus I for the Life Sciences and <u>MATA35H3</u> Calculus II for Biological Sciences] or [ <u>MATA30H3</u> Calculus I for Physical Sciences and <u>MATA36H3</u> Calculus II for Physical Sciences]

#### 4. 1.0 credit in Introductory Physics Courses

<u>PHYA11H3</u> Physics I for the Life Sciences <u>PHYA22H3</u> Physics II for the Life Sciences

#### 5. 0.5 credit in Statistics

Choose From: <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

Second Year 6. 3.0 credits in 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

#### 7. 1.0 credit in Biology Core Labs

<u>BIOB32H3</u> Animal Physiology Laboratory <u>BIOB33H3</u> Human Development and Anatomy Laboratory

#### 8. 1.0 credit in Organic Chemistry Courses

<u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II

Third/Fourth Years

#### 9. 2.0 credits in C-level Biology Core Courses

Choose From: <u>BIOC15H3</u> Genetics <u>BIOC17H3</u> Microbiology <u>BIOC20H3</u> Principles of Virology <u>BIOC32H3</u> Human Physiology I <u>BIOC39H3</u> Immunology

#### 10. 1.5 credits in Additional C-level Biology Courses

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

#### 11. 1.0 credit in D-level Biology Courses

Choose From:

BIOD12H3Protein HomeostasisBIOD17H3Seminars in Cellular MicrobiologyBIOD19H3Epigenetics in Health and DiseaseBIOD20H3Special Topics in VirologyBIOD26H3Fungal Biology and PathogenesisBIOD27H3Molecular EndocrinologyBIOD29H3Pathobiology of Human DiseaseBIOD33H3Comparative Animal PhysiologyBIOD35H3Sports ScienceBIOD37H3Biology of Plant StressBIOD43H3Animal Movement and ExerciseBIOD59H3Models in Ecology and ConservationBIOD65H3Pathologies of the Nervous System

#### 12. 0.5 credit in Psychology or Health Studies

Choose From: <u>HLTA02H3</u> Foundations in Health Studies I <u>HLTA03H3</u> Foundations in Health Studies II <u>HLTB15H3</u> Introduction to Health Research Methodology <u>HLTB16H3</u> Introduction to Public Health (<u>HLTB17H3</u>) Conceptual Models of Health <u>HLTB20H3</u> Contemporary Human Evolution and Variation (<u>HLTB21H3</u>) Infectious Diseases <u>HLTB22H3</u> Biological Determinants of Health <u>HLTB40H3</u> Health Policy and Health Systems <u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

## SPECIALIST PROGRAM IN INTEGRATIVE BIOLOGY (SCIENCE)

Supervisor: I. Stehlik Email: integrative-biology@utsc.utoronto.ca

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.

#### **Enrolment Requirements**

Students apply to the Specialist Program in Integrative Biology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics and with a minimum cumulative grade point average (CGPA) of at least 2.0. Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: http://www.utsc.utoronto.ca/registrar/programs.

#### **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. 1.0 Credit of Introductory Biology Courses
<u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

#### 2. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 3. 1.0 Credit in Mathematics

Choose from: [<u>MATA29H3</u> Calculus I for the Life Sciences and <u>MATA35H3</u> Calculus II for Biological Sciences] or [<u>MATA30H3</u> Calculus I for Physical Sciences and <u>MATA36H3</u> Calculus II for Physical Sciences]

### 4. 0.5 Credit in Physics

Choose from: <u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA11H3</u> Physics I for the Life Sciences

### 5. 0.5 Credit in Computer Science

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

Second Year

## 6. 3.0 Credits of Biology Core Courses

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

### 7. 0.5 Credit of Biology Core Labs

Choose from: <u>BIOB12H3</u> Cell and Molecular Biology Laboratory <u>BIOB32H3</u> Animal Physiology Laboratory <u>BIOB33H3</u> Human Development and Anatomy Laboratory <u>BIOB52H3</u> Ecology and Evolutionary Biology Laboratory

### 8. 0.5 Credit in Statistics

Choose from: <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

*Third Year* 9. 1.5 Credits of Biology Foundation Courses <u>BIOC15H3</u> Genetics <u>BIOC17H3</u> Microbiology <u>BIOC54H3</u> Animal Behaviour

 Third/Fourth Year

 **10. 0.5 Credit of Advanced Courses in Physiology, Biochemistry and Neurobiology** 

 Choose from:

 <u>BIOC12H3</u> Biochemistry I: Proteins and Enzymes

 <u>BIOC13H3</u> Biochemistry II: Bioenergetics and Metabolism

 <u>BIOC23H3</u> Practical Approaches to Biochemistry

 <u>BIOC32H3</u> Human Physiology I

 <u>BIOC33H3</u> Human Physiology II: Lecture and Laboratory

 <u>BIOC34H3</u> Human Physiology II: Lecture

 <u>BIOC39H3</u> Immunology

BIOC40H3 Plant Physiology BIOC65H3 Environmental Toxicology ANTC67H3 Foundations in Epidemiology NROC34H3 Neuroethology NROC61H3 Learning and Motivation NROC64H3 Sensorimotor Systems PSYC31H3 Clinical Neuropsychology BIOD07H3 Advanced Topics and Methods in Neural Circuit Analysis **BIOD08H3** Theoretical Neuroscience **BIOD12H3** Protein Homeostasis BIOD27H3 Molecular Endocrinology **BIOD29H3** Pathobiology of Human Disease **BIOD35H3 Sports Science BIOD43H3** Animal Movement and Exercise BIOD65H3 Pathologies of the Nervous System NROD67H3 Psychobiology of Aging

### 11. 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 and Aquariums in Conservation BIOC63H3 Conservation Biology (BIOC67H3) Inter-University Biology Field Course EESC04H3 Biodiversity and Biogeography **BIOD52H3 Biodiversity and Conservation BIOD54H3** Applied Conservation Biology **BIOD59H3 Models in Ecology and Conservation BIOD60H3** Spatial Ecology **BIOD62H3** Species and Speciation BIOD66H3 Causes and Consequences of Diversity **BIOD67H3** Inter-University Biology Field Course

### 12. 0.5 Credit of Advanced Courses in Genes and Development

Choose from:

BIOC10H3Cell Biology: Proteins from Life to DeathBIOC14H3Genes, Environment and BehaviourBIOC16H3Evolutionary Genetics and GenomicsBIOC19H3Animal Developmental BiologyBIOC31H3Plant Development and BiotechnologyBIOD19H3Epigenetics in Health and DiseaseBIOD21H3Advanced Molecular Biology LaboratoryBIOD22H3Molecular Biology of the Stress ResponseBIOD23H3Special Topics in Cell BiologyBIOD25H3Genomics

#### 13. 0.5 Credit of Advanced Courses in Organismal Biology

Choose from: <u>BIOC20H3</u> Principles of Virology <u>BIOC21H3</u> Vertebrate Histology: Cells and Tissues <u>ANTD22H3</u> Theory and Methodology of Primatology <u>ANTC68H3</u> Deconstructing Epidemics <u>EESC30H3</u> Environmental Microbiology <u>BIOC37H3</u> Plants: Life on the Edge (<u>BIOC38H3</u>) Plants and Society <u>BIOC60H3</u> Winter Ecology BIOD17H3 Seminars in Cellular Microbiology BIOD20H3Special Topics in VirologyBIOD26H3Fungal Biology and PathogenesisBIOD29H3Pathobiology of Human DiseaseBIOD33H3Comparative Animal PhysiologyBIOD37H3Biology of Plant StressBIOD45H3Animal CommunicationBIOD48H3OrnithologyBIOD53H3Special Topics in Behavioural Ecology

### 14. 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 (<u>BIOC99H3</u>, <u>BIOD95H3</u>, <u>BIOD98Y3</u> and <u>BIOD99Y3</u>). **Note**: <u>NROC34H3</u> (Neuroethology) 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.

(a): 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: <u>BIOB52H3</u> (Ecology and Evolutionary Biology Lab), <u>BIOC52H3</u> (Ecology Field Course), <u>BIOC58H3</u> (Biological Consequences of Global Change), <u>BIOC59H3</u> (Advanced Population Ecology), <u>BIOC60H3</u> (Winter Ecology), <u>BIOC61H3</u> (Community Ecology and Environmental Biology) <u>BIOD59H3</u> (Models in Ecology and Conservation) and (<u>BIOC67H3</u>) (Inter-University Biology Field Course).

(b): 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: <u>BIOC51H3</u> (Tropical Biodiversity Field Course), <u>BIOC62H3</u> (Role of Zoos and Aquariums in Conservation), <u>BIOC63H3</u> (Conservation Biology), <u>BIOD48H3</u> (Ornithology), <u>BIOD52H3</u> (Biodiversity and Conservation), <u>BIOD54H3</u> (Applied Conservation Ecology), <u>BIOD60H3</u> (Spatial Ecology) & <u>BIOD66H3</u> (Causes and Consequences of Biodiversity).

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

(d): For students with a particular interest in "Ecophysiology", you should consider including some or all of the following courses in your program: <u>BIOC65H3</u> (Environmental Toxicology), <u>BIOD33H3</u> (Comparative Animal Physiology) & <u>BIOD37H3</u> (Biology of Plant Stress).

(e): 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: <u>ANTC67H3</u> (Foundations in Epidemiology) or <u>ANTC68H3</u> (Deconstructing Epidemics), <u>BIOB33H3</u> (Human Development and Anatomy), <u>BIOC20H3</u> (Principles of Virology), <u>BIOC21H3</u> (Vertebrate Histology: Cells and Tissues), <u>BIOC33H3</u> or <u>BIOC34H3</u> (Human Physiology II), <u>BIOC39H3</u> (Immunology), <u>BIOD12H3</u> (Protein Homeostasis), <u>BIOD17H3</u> (Seminars in Cellular Microbiology), <u>BIOD20H3</u> (Special Topics in Virology), <u>BIOD25H3</u> (Genomics), <u>BIOD26H3</u> (Fungal Biology and Pathogenesis), <u>BIOD29H3</u> (Pathobiology of Human Disease) & <u>BIOD65H3</u> (Pathologies of the Nervous System).

(f): 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: <u>BIOC31H3</u> (Plant Development and Biotechnology), <u>BIOD17H3</u> (Seminars in Cellular Microbiology) and <u>BIOD37H3</u> (Biology of Plant Stress).

(g): For students with a particular interest in "Behavioural Biology" you should consider including some or all of the following courses in your program: <u>NROC34H3</u> (Neuroethology), <u>BIOD45H3</u> (Animal Communication), <u>BIOD07H3</u>

(Advanced Topics and Methods in Neural Circuit Analysis), <u>BIOD53H3</u> (Special Topics in Behavioural Ecology) & <u>NROC61H3</u> (Learning and Motivation).

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

(i): 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: <u>BIOC12H3</u> (Biochemistry I: Proteins and Enzymes), <u>BIOC13H3</u> (Biochemistry II: Bioenergetics and Metabolism), <u>BIOC16H3</u> (Evolutionary Genetics and Genomics), <u>BIOC19H3</u> (Animal Developmental Biology), <u>BIOC23H3</u> (Practical Approaches to Biochemistry), <u>BIOC31H3</u> (Plant Development and Biotechnology), <u>BIOC33H3</u> (Human Physiology II: Lecture and Laboratory) or <u>BIOC34H3</u> (Human Physiology II: Lecture), <u>BIOD21H3</u> (Advanced Molecular Biology Laboratory), <u>BIOD22H3</u> (Molecular Biology of the Stress Response), <u>BIOD23H3</u> (Special Topics in Cell Biology), <u>BIOD35H3</u> (Sports Science) and <u>BIOD25H3</u> (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 was formerly known as the Specialist in Cell and Molecular Biology (BSc).

#### **Enrolment Requirements**

Students apply to the Specialist Program in Molecular Biology and Biotechnology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics and with a minimum cumulative grade point average (CGPA) of at least 2.0. Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

### **Program Requirements**

This program consists of 14.5 required credits.

*First Year* **1. 1.0 Credit of Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions

#### **2. 1.0 Credit of Introductory Chemistry Courses** <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms

### 3. 1.0 Credit in Mathematics

Choose from: [<u>MATA29H3</u> Calculus I for the Life Sciences and <u>MATA35H3</u> Calculus II for Biological Sciences] or [<u>MATA30H3</u> Calculus I for Physical Sciences and <u>MATA36H3</u> Calculus II for Physical Sciences]

### 4. 1.0 Credit in Physics

[ <u>PHYA10H3</u> Physics I for the Physical Sciences or <u>PHYA11H3</u> Physics I for the Life Sciences] [ <u>PHYA21H3</u> Physics II for the Physical Sciences or <u>PHYA22H3</u> Physics II for the Life Sciences] and 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

#### 5. 3.0 Credits of Biology Core Courses

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

#### 6. 0.5 Credit of Biology Core Labs

BIOB12H3 Cell and Molecular Biology Laboratory

### 7. 1.0 Credit of Organic Chemistry Courses

<u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II

Third Year

8. 3.5 Credits of Biology C-level Courses
BIOC12H3 Biochemistry I: Proteins & Enzymes
BIOC13H3 Biochemistry II: Bioenergetics and Metabolism
BIOC15H3 Genetics
BIOC17H3 Microbiology
BIOC20H3 Principles of Virology
BIOC23H3 Practical Approaches to Biochemistry
BIOC39H3 Immunology (can be completed in third or fourth year)

### 9. 0.5 Credit in Computer Science

Choose from:

<u>CSCA08H3</u> Introduction to Computer Science I (most appropriate course for computer science students) <u>CSCA20H3</u> Introduction to Programming (most appropriate course for non-computer science students) <u>PSCB57H3</u> Introduction to Scientific Computing (computer science could also be taken in an earlier year)

#### Third/Fourth Year

#### 10. 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

12. 0.5 credit of D-level Research-oriented "Cell & Molecular" Course Work

Choose from: **BIOD12H3** Protein Homeostasis **BIOD17H3** Seminars in Cellular Microbiology **BIOD19H3** Epigenetics in Health and Disease **BIOD20H3 Special Topics in Virology 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: <u>molecular-biology-biotechnology@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

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 section 6B.5 (Co-operative Programs) in this *Calendar*.

Note: This program was formerly known as the Specialist Co-operative in Cell and Molecular Biology (BSc).

### **Enrolment Requirements**

The minimum qualifications for entry are 5.0 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, [(<u>MATA20H3</u>) and <u>MATA21H3</u>)] or [<u>MATA29H3</u> and <u>MATA35H3</u>], or [<u>MATA30H3</u> and <u>MATA36H3</u>], [<u>PHYA10H3</u> or <u>PHYA11H3</u>], plus a cumulative GPA or at least 2.75.

Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-

op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

The program requires students to complete a total of 14.5 credits.

*First Year* 1. 1.0 Credit of Introductory Biology Courses <u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

2. 1.0 Credit of Introductory Chemistry Courses <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry I: Reactions and Mechanisms

3. 1.0 Credit in Mathematics
 Choose from:
 [<u>MATA29H3</u> Calculus I for the Life Sciences and <u>MATA35H3</u> Calculus II for Biological Sciences] or [<u>MATA30H3</u> Calculus I for Physical Sciences and <u>MATA36H3</u> Calculus II for Physical Sciences]

1.0 Credit in Physics
 <u>PHYA10H3</u> Physics I for the Physical Sciences or <u>PHYA11H3</u> Physics I for the Life Sciences]
 <u>PHYA21H3</u> Physics II for the Physical Sciences or <u>PHYA22H3</u> Physics II for the Life Sciences]

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

Second Year 6. 3.0 Credits of Biology Core Courses <u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes [<u>BIOB34H3</u> Animal Physiology or (<u>BIOB30H3</u>) Mammalian Physiology I] [<u>BIOB38H3</u> Plants and Society or (<u>BIOB31H3</u>) Plant Physiology] <u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology

7. 0.5 Credit of Biology Core Labs BIOB12H3 Cell and Molecular Biology Laboratory

8. 1.0 Credit of Organic Chemistry Courses <u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II

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

Third Year9. 3.5 Credits of Biology C-level CoursesBIOC12H3Biochemistry I: Proteins and EnzymesBIOC13H3Biochemistry II: Bioenergetics and MetabolismBIOC15H3GeneticsBIOC17H3MicrobiologyBIOC20H3Principles of VirologyBIOC23H3Practical Approaches to BiochemistryBIOC39H3Immunology (can be completed in third or fourth year)

10. 0.5 Credit in Computer Science Choose from:

<u>CSCA08H3</u> Introduction to Computer Science I (most appropriate course for computer science students) <u>CSCA20H3</u> Introduction to Programming (most appropriate course for non-computer science students) <u>PSCB57H3</u> Introduction to Scientific Computing

Third/Fourth Year 11. 0.5 Credit of Cognate Biology Courses Choose from: <u>BIOC10H3</u> Cell Biology: Proteins from Life to Death <u>BIOC14H3</u> Genes, Environment and Behaviour <u>BIOC19H3</u> Animal Developmental Biology <u>BIOC21H3</u> Vertebrate Histology: Cells and Tissues <u>BIOC31H3</u> Plant Development and Biotechnology <u>BIOC40H3</u> Plant Physiology BIOD37H3 Biology of Plant Stress

*Fourth Year* 12. 0.5 Credit in Advanced Molecular Techniques <u>BIOD21H3</u> Advanced Molecular Biology Laboratory

13. 0.5 Credit of D-level Research-Oriented "Cell & Molecular" Course Work Choose from: **BIOD12H3** Protein Homeostasis **BIOD17H3** Seminars in Cellular Microbiology **BIOD19H3** Epigenetics in Health and Disease BIOD20H3 Special Topics in Virology **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

## **Co-op Work Term Requirements**

Courses.'

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Molecular Biology and Biotechnology and have completed at least 10.0 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, [(<u>MATA20H3</u>) and (<u>MATA21H3</u>)] or [<u>MATA29H3</u> and <u>MATA35H3</u>] or [<u>MATA30H3</u> and <u>MATA36H3</u>], [<u>PHYA10H3</u> or <u>PHYA11H3</u>], <u>BIOB10H3</u>, <u>BIOB11H3</u>, <u>BIOB12H3</u>, <u>CHMB41H3</u> and <u>CHMB42H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>
- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

# **MAJOR PROGRAM IN BIOLOGY (SCIENCE)**

Supervisor: 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.

The Major program in Biology (Science) cannot be combined with any other Major program offered by the Department of Biological Sciences.

### **Enrolment Requirements**

Students apply to the Major Program in Biology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics. Students are admitted on the basis of academic performance.

Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

### **Program Requirements**

This program consists of 8.0 required credits.

*First Year* **1. 1.0 Credit of Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

### 2. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

### 3. 0.5 Credit in Mathematics or Statistics

Choose from: <u>MATA29H3</u> Calculus I for the Life Sciences <u>MATA30H3</u> Calculus I for Physical Sciences <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

#### Second Year 4. 3.0 Credits of Biology Core Courses

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

### 5. 0.5 Credit of Biology Core Labs

Choose from: <u>BIOB12H3</u> Cell and Molecular Biology Laboratory <u>BIOB32H3</u> Animal Physiology Laboratory <u>BIOB33H3</u> Human Development and Anatomy Laboratory <u>BIOB52H3</u> Ecology and Evolutionary Biology Laboratory

Third Year

#### 6. 1.5 Credits of Additional C-level Biology Courses Choose from: Any BIO C-level courses offered by the department.

Note: NROC34H3 (Neuroethology) may also be used toward fulfilling this requirement.

Fourth Year

### 7. 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 (<u>BIOD95H3</u>, <u>BIOD98Y3</u> and <u>BIOD99Y3</u>).

## MAJOR PROGRAM IN CONSERVATION AND BIODIVERSITY (SCIENCE)

Supervisor: 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 was formerly known as the Major in Biodiversity, Ecology & Evolution (BSc).

### **Enrolment Requirements**

Students apply to the Major Program in Conservation and Biodiversity after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics. Students are admitted on the basis of academic performance. Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

### **Program Requirements**

This program consists of 8.5 required credits.

## First Year

1. 1.0 Credit of Introductory Biology Courses BIOA01H3 Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions

### 2. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

## 3. 0.5 Credit in Mathematics or Statistics

Choose from: <u>MATA29H3</u> Calculus I for the Life Sciences <u>MATA30H3</u> Calculus I for Physical Sciences <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

Second Year

### 4. 3.0 Credits of Biology Core Courses

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

### 5. 0.5 Credit of Biology Core Labs

BIOB52H3 Ecology and Evolutionary Biology Laboratory

#### Third Year

6. 1.0 Credit of Ecology & Evolution Foundation Courses Choose from: <u>BIOC16H3</u> Evolutionary Genetics and Genomics <u>BIOC50H3</u> Macroevolution <u>BIOC59H3</u> Advanced Population Ecology BIOC61H3 Community Ecology and Environmental Biology

### 7. 1.0 Credit of Other C-level Courses

Choose from: <u>BIOC37H3</u> Plants: Life on the Edge (<u>BIOC38H3</u>) Plants and Society <u>BIOC40H3</u> Plant Physiology <u>BIOC51H3</u> Tropical Biodiversity Field Course <u>BIOC52H3</u> Ecology Field Course <u>BIOC54H3</u> Animal Behaviour <u>BIOC58H3</u> Biological Consequences of Global Change <u>BIOC60H3</u> Winter Ecology <u>BIOC62H3</u> Role of Zoos and Aquariums in Conservation <u>BIOC63H3</u> Conservation Biology <u>BIOC65H3</u> Environmental Toxicology (<u>BIOC67H3</u>) Inter-University Biology Field Course <u>EESC30H3</u> Environmental Microbiology

#### Fourth Year

#### 8. 0.5 Credit of D-level Courses Choose from: BIOD25H3 Genomics

BIOD25H3 Genomics BIOD26H3 Fungal Biology & Pathogenesis BIOD33H3 Comparative Animal Physiology BIOD43H3 Animal Movement and Exercise BIOD45H3 Animal Communication BIOD48H3 Ornithology BIOD52H3Biodiversity and ConservationBIOD53H3Special Topics in Behavioural EcologyBIOD54H3Applied Conservation BiologyBIOD59H3Models in Ecology and ConservationBIOD60H3Spatial EcologyBIOD62H3Species and SpeciationBIOD66H3Causes & Consequences of BiodiversityBIOD67H3Inter-University Biology Field CourseEESD15H3Fundamentals of Site Remediation

# MAJOR PROGRAM IN HUMAN BIOLOGY (SCIENCE)

Supervisor: S.G. Reid Email: human-biology@utsc.utoronto.ca

The Major in Human Biology 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.

#### **Enrolment Requirements**

Students apply to the Major Program in Human Biology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics. Students are admitted on the basis of academic performance.

Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

#### **Program Requirements:**

This program consists of 8.5 credits.

#### **Required Courses and Suggested Course Sequence**

*First Year* **1. 1.0 Credit of Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions

#### 2. 1.0 Credit in Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

### 3. 1.0 Credit in Introductory Psychology Courses

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

### 4. 0.5 Credit in Mathematics or Statistics

Choose From: <u>MATA29H3</u> Calculus I for the Life Sciences <u>MATA30H3</u> Calculus I for Physical Sciences <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

Second Year 5. 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

### 6. 0.5 Credit in a Biology Core Lab

Choose From: BIOB32H3 Animal Physiology Laboratory **BIOB33H3 Human Development and Anatomy** 

### Third/Fourth Years

#### 7. 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 **BIOC20H3** Principles of Virology 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 **BIOC54H3** Animal Behaviour **BIOC58H3 Biological Consequences of Global Change BIOC65H3** Environmental Toxicology NROC61H3 Learning and Motivation NROC64H3 Sensorimotor Systems NROC69H3 Synaptic Organisation and Physiology of the Brain

## 8. 0.5 Credit of Additional D-Level Biology Courses

Choose From: BIOD07H3 Advanced Topics and Methods in Neural Circuit Analysis **BIOD08H3** Theoretical Neuroscience **BIOD12H3** Protein Homeostasis **BIOD17H3** Seminars in Cellular Microbiology **BIOD19H3** Epigenetics in Health and Disease **BIOD20H3 Special Topics in Virology BIOD26H3** Fungal Biology and Pathogenesis BIOD29H3 Pathobiology of Human Disease **BIOD33H3** Comparative Animal Physiology **BIOD35H3** Sports Science **BIOD43H3** Animal Movement and Exercise **BIOD59H3** Models in Ecology and Conservation 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.

### **Enrolment Requirements**

Students apply to the Major Program in Molecular Biology, Immunology and Disease after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics. Students are admitted on the basis of academic performance.

Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

#### **Program Requirements**

This program consists of 8.5 credits.

#### First Year

**1. 1.0 Credit of Introductory Biology Courses** <u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

#### 2. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 3. 0.5 Credit in Mathematics or Statistics

Choose from: <u>MATA29H3</u> Calculus I for the Life Sciences <u>MATA30H3</u> Calculus I for Physical Sciences <u>STAB22H3</u> Statistics I <u>PSYB07H3</u> Data Analysis in Psychology

#### Second Year

#### 4. 2.5 Credits of Biology Core Courses

<u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes <u>BIOB34H3</u> Animal Physiology <u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology

#### 5. 0.5 Credit in a Biology Core Lab

Choose From: <u>BIOB12H3</u> Cell and Molecular Biology Laboratory <u>BIOB32H3</u> Animal Physiology Laboratory BIOB33H3 Human Development and Anatomy

#### Third/Fourth Years

6. 1.5 Credit of Required C-level Courses BIOC17H3 Microbiology BIOC20H3 Principles of Virology BIOC39H3 Immunology

#### 7. 1.0 Credit of Additional C-level Courses

Choose from: <u>BIOC10H3</u> Cell Biology: Proteins from Life to Death <u>BIOC12H3</u> Biochemistry I: Proteins & Enzymes <u>BIOC13H3</u> Biochemistry II: Bioenergetics and Metabolism <u>BIOC14H3</u> Genes, Environment and Behaviour <u>BIOC15H3</u> Genetics <u>BIOC19H3</u> Animal Developmental Biology <u>BIOC31H3</u> Plant Development and Biotechnology 8. 0.5 credit of Additional D-level Biology Courses Choose from: <u>BIOD12H3</u> Protein Homeostasis <u>BIOD17H3</u> Seminars in Cellular Microbiology <u>BIOD19H3</u> Epigenetics in Health and Disease <u>BIOD20H3</u> Special Topics in Virology <u>BIOD23H3</u> Special Topics in Cell Biology <u>BIOD25H3</u> Genomics <u>BIOD26H3</u> Fungal Biology and Pathogenesis <u>BIOD27H3</u> 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.

#### **Enrolment Requirements**

Students apply to the Major Program in Plant Biology after completing a minimum of 4.0 full credits, including 1.0 credit in Biology (excluding <u>BIOA11H3</u>), 1.0 credit in Chemistry, and 0.5 credit in Mathematics (excluding <u>MATA02H3</u>) or Statistics. Students are admitted on the basis of academic performance.

Application for admission is made to the Registrar through ACORN, in April/May and July/August. See the UTSC Registrar's website for more information on program selection at: <u>http://www.utsc.utoronto.ca/registrar/programs</u>.

#### **Program Requirements**

Students are required to complete a total of 8.5 credits.

#### **Required Courses and Suggested Course Sequence:**

*First Year* **1. 1.0 credit as follows:** <u>BIOA01H3</u> Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions

#### 2. 1.0 credit as follows:

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 3. 0.5 credit from the following:

STAB22H3 Statistics I PSYB07H3 Data Analysis in Psychology

Second Year **4. 2.5 credits as follows:** <u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes <u>BIOB38H3</u> Plants and Society <u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology

## 5. 0.5 credit from the following:

<u>BIOB12H3</u> Cell and Molecular Biology Laboratory <u>BIOB52H3</u> Ecology and Evolutionary Biology Laboratory

*Third Year*  **6. 2.0 credits as follows:** <u>BIOC31H3</u> Plant Development and Biotechnology <u>BIOC37H3</u> Plants: Life on the Edge <u>BIOC40H3</u> Plant Physiology [<u>BIOC15H3</u> Genetics or <u>BIOC17H3</u> Microbiology or <u>BIOC50H3</u> Macroevolution]

Third/ Fourth Year7. 0.5 credit from the following:BIOC61H3BIOD21H3Advanced Molecular Biology LaboratoryBIOD37H3Biology of Plant StressBIOD62H3Species and SpeciationBIOD26H3Fungal Biology and Pathogenesis

*Fourth Year* **8. 0.5 credit from the following:** [<u>BIOD30H3</u> Plant Research and Biotechnology: Addressing Global Problems or [any of the following research-based courses if the research utilizes plants: <u>BIOC99H3</u>, <u>BIOD95H3</u>, <u>BIOD98Y3</u> or <u>BIOD99Y3</u>]

# MINOR PROGRAM IN BIOLOGY (SCIENCE)

Supervisor: I. Stehlik Email: biology-minor@utsc.utoronto.ca

Enrolment in the Minor in Biology is unlimited. The Minor in Biology cannot be combined with any Major or Specialist programs offered by the Department of Biological Sciences.

## **Program Requirements**

Students are required to complete a total of 4.0 credits.

### 1. 1.0 credit of Introductory Biology courses:

<u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

### 2. 3.0 credits in Biology\*, of which at least one credit must be at the C- or D-level.

\*\* <u>NROC34H3</u> may be used toward fulfilling this requirement.

\*\* <u>BIOA11H3</u> may not be used towards 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 or Grade 12 Calculus and Vectors or the Online Mathematics Preparedness Course] **Exclusion:** BIO120H, BIO130H, (BIO150Y) **Breadth Requirements:** 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 or Grade 12 Calculus and Vectors or the Online Mathematics Preparedness Course] **Exclusion:** BIO120H, BIO130H, (BIO150Y) **Breadth Requirements:** Natural Sciences

# BIOA11H3 - Introduction to the Biology of Humans

An exploration of how molecules and cells come together to build and 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 Requirements: 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 and BIOA02H3 and CHMA10H3 and CHMA11H3 Exclusion: (BIOB10Y3), BIO241H, (BIO250Y) Breadth Requirements: 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 Requirements: 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 and CHMA11H3 Corequisite: BIOB11H3 or (BIOB10Y3) Exclusion: BIO215H

**Breadth Requirements:** 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), 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 co-ordinate 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 Requirements: 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.

Prerequisite: BIOA01H3 and BIOA02H3 Exclusion: ANA300Y, ANA301H, PMDB33H3 Breadth Requirements: Natural Sciences Note: Priority will be given to students in the Human Biology programs. Additional students will be admitted as space permits.

# **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 Requirements: Natural Sciences

# BIOB35H3 - Essentials of Human Physiology

An exploration of the normal physiology of the human body. Emphasis will be placed on organ systems associated with head and neck, especially nervous, respiratory, muscular, digestive, cardiovascular, and endocrine. The interrelationship among organ systems and how they serve to maintain homeostasis and human health will also be discussed.

Prerequisite: BIOA01H3 or BIOA11H3 Exclusion: BIOC32H3, BIOC33H3, BIOC34H3, PSL201Y1, BIO210Y5 Breadth Requirements: Natural Sciences Note: Priority will be given to students in the Specialist Program in Psycholinguistics (Co-op and Non co-op). Additional students will be admitted if space permits.

# **BIOB38H3 - Plants and Society**

How do plants feed humans? What are the 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 Requirements: 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 and BIOA02H3 **Breadth Requirements:** 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 and BIOA02H3 **Breadth Requirements:** 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 Requirements: 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. **Note:** This course is a credit/no credit course.

**Prerequisite:** At least 4.0 credits including BIOA01H3 and BIOA02H3 and enrolment in a Biology program. **Exclusion:** BIOB98H3 may not be taken after or concurrently with BIOB99H3, BIOD95H3, BIOD98Y3 or BIOD99Y3.

## 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 BIOB98H3 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 BIOB98H3. **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 seminar 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: BIOB11H3 or (BIOB10Y3) Exclusion: CSB428H, BIO315H Recommended Preparation: BIOC12H3 Enrolment Limits: 50 Breadth Requirements: Natural Sciences

# **BIOC12H3 - Biochemistry I: Proteins and 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: [BIOB11H3 or (BIOB10Y3)] and CHMB41H3 Exclusion: CHMB62H3, BCH210H, BCH242Y, (BCH310H) Recommended Preparation: CHMB42H3 Breadth Requirements: 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: [BIOB11H3 or (BIOB10Y3)] and CHMB41H3 Exclusion: CHMB62H3, BCH210H, BCH242Y, (BCH310H) Breadth Requirements: 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 Requirements:** 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: [BIOB11H3 or (BIOB10Y3)] and [PSYB07H3 or STAB22H3] Exclusion: BIO260H, HMB265H Breadth Requirements: 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 Requirements: 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: BIOB11H3 or (BIOB10Y3) Exclusion: MGY377H, (MBY377H) Breadth Requirements: 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: BIOB11H3 or (BIOB10Y3) Exclusion: CSB328H Breadth Requirements: Natural Sciences

# **BIOC20H3 - Principles of Virology**

This course introduces viruses as infectious agents. Topics include: virus structure and classification among all kingdoms, viral replication strategies, the interactions of viruses with host cells, and how viruses cause disease. Particular emphasis will be on human host-pathogen interactions, with select lectures on antiviral agents, resistance mechanisms, and vaccines.

Prerequisite: BIOB11H3 Exclusion: BIO475H5, CSB351Y1, MGY378H1 Breadth Requirements: 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)] and [(BIOB30H3) or BIOB34H3] Exclusion: ANA300Y Breadth Requirements: 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), BCH377H, BCH378H Breadth Requirements: Natural Sciences

# BIOC31H3 - 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 molecular 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: BIOB11H3 or (BIOB10Y3) Exclusion: CSB340H, (BOT340H) Breadth Requirements: Natural Sciences

## BIOC32H3 - 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 Requirements: 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 Requirements:** 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: BIOC33H3, (PSL302Y), PSL301H Breadth Requirements: 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 covers 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 Requirements: 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: BIOB11H3 or (BIOB10Y3) Exclusion: IMM340H, IMM341H, IMM350H, IMM351H, (IMM334Y), (IMM335Y) Breadth Requirements: 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: BIOB11H3 or (BIOB10Y3) Exclusion: (BIOB31H3), BIO251H Breadth Requirements: 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 and BIOB51H3 Exclusion: EEB362H Breadth Requirements: Natural Sciences

# BIOC51H3 - Tropical Biodiversity Field Course

A course with preparatory lectures on the UTSC campus and 1 week at a field station in Costa Rica where ecological, evolutionary, and practical aspects of tropical biodiversity will be explored. Field work will involve outdoor activities in challenging conditions.

**Prerequisite:** BIOB50H3 and BIOB51H3 and BIOB52H3 and permission of instructor.

Enrolment Limits: 15

Breadth Requirements: Natural Sciences

**Note:** Students should contact the instructor 4 months before the start of the course. Additional course fees are applied, and students will need to place a deposit towards the cost of airfare and accommodation.

# **BIOC52H3 - Ecology Field Course**

This course provides students with the opportunity to experience hands-on learning through informal natural history walks, and group and individual research projects, in a small-class setting. The course covers basic principles and selected techniques of field ecology and ecological questions related to plants in their natural settings. Most of the field work takes place in the Highland Creek ravine.

Corequisite: BIOB50H3 and BIOB51H3 Exclusion: (EEB305H) Enrolment Limits: 15 Breadth Requirements: 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 and BIOB51H3 Exclusion: EEB322H, (ZOO322H) Breadth Requirements: 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 and BIOB51H3 **Exclusion:** EEB428H, GGR314H, (BIO428H) **Breadth Requirements:** 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 Requirements: 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 Requirements: 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, primary productivity, nutrient supply, predation, competition, trophic dynamics, stability and disturbance, and effects of global change.

Prerequisite: BIOB50H3 Exclusion: EEB321H, (BIO321H) Breadth Requirements: Natural Sciences

# BIOC62H3 - Role of Zoos and Aquariums in Conservation

This lecture and tutorial course explores strategic and operational aspects of zoos and aquariums 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 and BIOB51H3 **Enrolment Limits:** 50 **Breadth Requirements:** 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 and BIOB51H3 Exclusion: EEB365H, (BIO365H) Breadth Requirements: 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:** BIOB50H3 and CHMA10H3 and CHMA11H3 **Breadth Requirements:** 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: <u>http://www.utsc.utoronto.ca/biosci/resourcescurrent-students</u>

## **BIOD07H3 - Advanced Topics and Methods in Neural Circuit Analysis**

This course will survey different fields in neural circuit research ranging from sensory systems to motor control. Emphasis will be placed on new methodologies used to deconstruct circuit function, including advanced functional imaging, optogenetics, anatomical reconstruction and the latest behavioural approaches.

Prerequisite: BIOC32H3 or NROC34H3 or NROC64H3 or NROC69H3 Enrolment Limits: 35 Breadth Requirements: Natural Sciences

# **BIOD08H3 - Theoretical Neuroscience**

A seminar covering topics in the theory of neural information processing, focused on perception, action, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current mathematical theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures, auto-associative memories, reinforcement learning and Bayesian optimality. Same as NROD08H3

Prerequisite: [NROC34H3 or NROC64H3 or NROC69H3] and [MATA29H3 or MATA31H3] and [PSYB07H3 or STAB22H3] Exclusion: NROD08H3 Breadth Requirements: Natural Sciences

## **BIOD12H3 - Protein Homeostasis**

A lecture/seminar course on the cellular mechanisms of protein quality control. Animal and plant models will be used to highlight the mechanisms of action of selected protein folding and degradation machineries critical to cell functions. Primary literature in protein homeostasis and possible consequence of malfunction in eukaryotic cells will also be discussed.

Prerequisite: BIOC10H3 or BIOC12H3 Enrolment Limits: 35 Breadth Requirements: 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 or BIOC39H3 Enrolment Limits: 35 Breadth Requirements: 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 Requirements: Natural Sciences

## **BIOD20H3 - Special Topics in Virology**

This is a lecture/seminar course that will discuss advanced topics in human virology. The course focus will be on human viruses, pathogenicity in human hosts, and current literature on emerging pathogens.

Prerequisite: BIOC20H3 Exclusion: MGY440H1 Enrolment Limits: 35 Breadth Requirements: 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:** BIOB12H3 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 Requirements:** 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: BIOC10H3 or BIOC12H3 or BIOC15H3 Enrolment Limits: 24 Breadth Requirements: 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 Requirements: 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 Requirements: Natural Sciences

# **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: (BIOB30H3) or BIOB34H3 or BIOC32H3 Recommended Preparation: BIOC33H3 or BIOC34H3 Enrolment Limits: 30 Breadth Requirements: 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 Requirements: 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.

Prerequisite: BIOC10H3 or BIOC20H3 or BIOC39H3 Enrolment Limits: 35 Breadth Requirements: 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: BIOB38H3 an [one of BIOC15H3, BIOC31H3, BIOC37H3 or BIOC40H3] Enrolment Limits: 30 Breadth Requirements: 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 Requirements:** 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 Requirements: 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: [BIOB11H3 or (BIOB10Y3)] and [BIOC31H3 or BIOC40H3 or (BIOB31H3)] Enrolment Limits: 35 Breadth Requirements: 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 Requirements: Natural Sciences

# **BIOD45H3 - Animal Communication**

This course will examine how animals send and receive signals in different sensory modalities, and the factors that govern the evolution and structure of communication signals. Using diverse examples (from bird songs and electric fish) the course will demonstrate the importance of communication in the organization of animal behaviour, and introduce some theoretical and empirical tools used in studying the origins and structure of animal communication.

**Prerequisite:** BIOC54H3 or NROC34H3 **Breadth Requirements:** 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: BIOB50H3, BIOB51H3 and one of the following: BIOC50H3; BIOC54H3 or BIOC61H3 Exclusion: EEB386H, EEB384H Breadth Requirements: Natural Sciences

# **BIOD52H3 - Biodiversity and Conservation**

A seminar exploration of current topics in biodiversity and conservation, including genetic, organismal, and community levels. Examples include DNA barcoding, adaptive radiations, phylogenetic trees, and biodiversity hotspots. Skills development in critical thinking and interpretation of the primary literature is emphasized, with coursework involving group presentations, discussions, and written analyses.

Prerequisite: BIOC50H3 or BIOC63H3 Enrolment Limits: 30 Breadth Requirements: 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 Exclusion: EEB496Y, (BIO496Y) Enrolment Limits: 30 Breadth Requirements: Natural Sciences

# 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 Requirements: Natural Sciences

# **BIOD59H3 - Models in Ecology and Conservation**

Modelling is a critical tool used to address urgent resource management questions in ecology, epidemiology and conservation. This practical introduction includes approaches for modelling individuals, populations, species interactions, and communities. Applications include population viability assessments, disease eradication and climate change mitigation.

Prerequisite: MATA29H3 and BIOB50H3 Enrolment Limits: 35 Breadth Requirements: 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:** BIOB50H3 and STAB22H3 and [BIOC59H3 or BIOC61H3] **Breadth Requirements:** Natural Sciences

# **BIOD62H3 - Species and Speciation**

A species is the basic unit of evolution and this course focuses on the process of how species evolve and what keeps established species apart. This course thus provides the student with a deeper understanding of how Earth's biodiversity evolved and is maintained under natural conditions.

Prerequisite: BIOC16H3 or BIOC50H3 Exclusion: EEB340H Enrolment Limits: 30 Breadth Requirements: 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 (BIOB10Y3)] and [one of: BIOC32H3, NROC61H3, NROC64H3 or NROC69H3] Exclusion: (NROD65H3) Enrolment Limits: 30 Breadth Requirements: 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:** BIOB51H3 and [BIOC59H3 or BIOC61H3] **Enrolment Limits:** 30 **Breadth Requirements:** 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 coordinator required) Exclusion: (BIOC67H3) Breadth Requirements: Natural Sciences Note: Additional information is provided on the Department of Biological Sciences website http://www.utsc.utoronto.ca/biosci/resources-currentstudents and on the OUPFB website<u>http://www.oupfb.ca/index.html</u>

# 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
- <u>S. Dalili</u>, 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
- <u>A. Hadzovic</u>, B.Sc. (Sarajevo), Ph.D. (Toronto), Associate Professor, Teaching Stream
- A. Izmaylov, M.Sc. (Moscow), M.A. (Rice), Ph.D. (Rice), Associate Professor
- <u>K. Kerman</u>, 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
- <u>M. Simpson</u>, B.Sc.(Alberta), Ph.D. (Alberta), Professor
- R. Soong, B.Sc. (Toronto), Ph.D. (Toronto), Senior Research Associate
- R. Sullan, B.Sc. (Phillipines), Ph.D. (Toronto), Assistant Professor
- 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), Associate Professor
- <u>M. Zimmer-de Iuliis</u>, B.Sc. Ph.D. (Toronto), B.Ed (OISE) Assistant Professor, Teaching Stream

Coordinator 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 <u>CHMA10H3</u> and <u>CHMA11H3</u> which must be taken by those who wish to take further chemistry courses or who require chemistry for another science. Completion of <u>CHMA10H3</u> and <u>CHMA11H3</u> 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:* <u>CHMA10H3</u> <u>CHMA11H3</u> <u>CHMB16H3</u> <u>CHMB31H3</u> <u>CHMC31Y3</u> *To enter St. George Series* 440 (except 447), *complete the following U of T Scarborough courses:* <u>CHMA10H3</u> <u>CHMA10H3</u> <u>CHMB41H3</u> <u>CHMB42H3</u> <u>CHMC41H3/CHMC42H3</u> and <u>CHMC47H3</u> **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

Students are urged to take [PHYA10H3 and PHYA21H3] early in their Programs even though PHYA21H3 may not be a prerequisite until third-year physical chemistry is chosen. 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.

Some courses in Chemistry (CHM) may include Ancillary fees.

# 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 (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

For more information, including Admission and Program requirements, see the <u>Combined Degree Programs</u> section of this *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

## **Chemistry Programs**

## SPECIALIST PROGRAM IN BIOLOGICAL CHEMISTRY (SCIENCE)

Supervisor: R. Sullan (416-287-7359) Email: ruby.sullan@utoronto.ca

This program is intended for students who want to specialize in Chemistry, and students who are also interested in the Chemistry of living systems.

#### **Enrolment Requirements**

Students may apply to this program after completing at least 4.0 credits including: <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA10H3</u>, <u>MATA30H3</u> and <u>PHYA10H3</u> 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 Office of the Registrar's <u>website</u> for information on program (Subject POSt) selection.

### **Program Requirements**

The program requires the completion of the following 15.0 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 Physics I for the Physical Sciences PHYA21H3 Physics II for the Physical Sciences

#### Second Year:

<u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspect of Cellular and Genetic Processes <u>BIOB12H3</u> Laboratory for Cell and Molecular Biology <u>CHMB31H3</u> Introduction to Inorganic Chemistry <u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II

#### Second or Third Year:

<u>CHMB16H3</u> Techniques in Analytical Chemistry <u>CHMB21H3</u> Chemical Structure and Spectroscopy <u>CHMB23H3</u> Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice <u>STAB22H3</u> Statistics I

#### Third Year:

<u>BIOC12H3</u> Biochemistry I: Proteins and Enzymes <u>BIOC13H3</u> Biochemistry II: Bioenergetics and Metabolism <u>BIOC23H3</u> Practical Approaches to Biochemistry <u>CHMC47H3</u> Bio-Organic Chemistry

## Third or Fourth Year:

<u>CHMC11H3</u> Principles of Analytical Instrumentation <u>CHMC31Y3</u> Intermediate Inorganic Chemistry [<u>CHMC41H3</u> Organic Reaction Mechanisms *or* <u>CHMC42H3</u> Organic Synthesis]

#### Fourth Year:

<u>CHMD79H3</u> Topics in Biological Chemistry 1.5 credits in D-level or 400-level CHM courses including one of the following courses: <u>CHMD90Y3</u> Directed Research <u>CHMD91H3</u> Directed Research <u>CHMD92H3</u> Advanced Chemistry Laboratory Course and at least 0.5 credit from the following: <u>CHMD69H3</u> Bioinorganic Chemistry <u>CHMD71H3</u> Pharmaceutical Chemistry

## SPECIALIST (CO-OPERATIVE) PROGRAM IN BIOLOGICAL CHEMISTRY (SCIENCE)

Co-op Supervisor of Studies: S. Dalili (416-287-7215) Email: sdalili@utsc.utoronto.ca

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Biological Chemistry is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Biological Chemistry upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>MATA30H3</u>, <u>[MATA35H3</u> or <u>MATA36H3</u>], <u>PHYA10H3</u> and <u>PHYA21H3</u>, plus a cumulative GPA (CGPA) of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office. (http://www.utsc.utoronto.ca/askcoop/future-co-op-students). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar's each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Biological Chemistry.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Biological Chemistry and have completed at least 7.0 credits, including <u>CHMB16H3</u>. It is strongly recommended that <u>BIOB12H3</u> be completed prior to the first work term.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: <u>COPD01H3</u>
- This course will be completed eight months in advance of the first scheduled work term

### 3. COPD11H3 – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term

- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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.

#### **Enrolment Requirements**

Students may apply to this program after completing at least 4.0 credits, including <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>PHYA10H3</u>, <u>PHYA21H3</u>, and 1.0 credit in either <u>MATA23H3</u>, <u>MATA30H3</u> or <u>MATA36H3</u> 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 Office of the Registrar's <u>website</u> for information on program (Subject POSt) selection.

#### **Program Requirements**

The Program requires completion of 14.0 credits as follows:

*First Year:*  **1. 4.0 credits from the following** <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms <u>MATA23H3</u> Linear Algebra I <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA36H3</u> Calculus II for Physical Sciences <u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA21H3</u> Physics II for the Physical Sciences <u>STAB22H3</u> Statistics I

Second Year:

#### 2. 4.0 credits from the following

<u>CHMB16H3</u> Techniques in Analytical Chemistry <u>CHMB21H3</u> Chemical Structure and Spectroscopy <u>CHMB23H3</u> Introduction to Chemical Thermodynamics and Kinetics: Theory and Practice <u>CHMB31H3</u> Introduction to Inorganic Chemistry <u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II <u>CHMB62H3</u> Introduction to Biochemistry <u>MATB41H3</u> Techniques of Calculus of Several Variables I *Third Year:*  **3. 3.0 credits from the following** <u>CHMC11H3</u> Principles of Analytical Instrumentation <u>CHMC20H3</u> Analytical Instrumentation [<u>CHMC20H3</u> Intermediate Physical Chemistry *or* <u>CHMC21H3</u> Topics in Biophysical Chemistry] <u>CHMC31Y3</u> Intermediate Inorganic Chemistry [<u>CHMC41H3</u> Organic Reaction Mechanisms *or* <u>CHMC42H3</u> Organic Synthesis]

#### *Fourth Year:* **4. 3.0 credits from the following** <u>PSCD02H3</u> Current Questions in Mathematics and Science *and* 0.5 credit in any C-level or 300-level CHM course not already taken *and* 2.0 credits in any D-level or 400-level CHM course including one of the following: <u>CHMD90Y3</u> Directed Research <u>CHMD91H3</u> Directed Research <u>CHMD92H3</u> Advanced Chemistry Laboratory Course

# SPECIALIST (CO-OPERATIVE) PROGRAM IN CHEMISTRY (SCIENCE)

Co-op Supervisor of Studies: S. Dalili (416-287-7215) Email: sdalili@utsc.utoronto.ca

### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Chemistry is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Chemistry upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

## **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>MATA30H3</u>, <u>MATA36H3</u>, <u>PHYA10H3</u> and <u>PHYA21H3</u>, plus a cumulative GPA (CGPA) of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Chemistry.
### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Chemistry and have completed at least 7.0 credits, including <u>CHMB16H3</u>.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

### 3. COPD11H3 – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **MAJOR PROGRAM IN BIOCHEMISTRY (SCIENCE)**

Supervisor Email: biochemistry-major@utsc.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 credits:

First Year:

**1. 3.0 credits from the following** 

 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

Second and Later Years:

2. 5.5 credits from the following **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**: This program cannot be combined with the Major Program in Chemistry. However, when students are selecting their course of studies, they should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements).

## MAJOR (CO-OPERATIVE) PROGRAM IN BIOCHEMISTRY (SCIENCE)

Co-op Supervisor of Studies: S. Dalili (416-287-7215) Email: sdalili@utsc.utoronto.ca

Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Biochemistry is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity

to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Biochemistry upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>MATA30H3</u> and [<u>MATA35H3</u> or <u>MATA36H3</u>], plus a cumulative GPA (CGPA) of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Biochemistry.

### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Biochemistry and have completed at least 7.0 credits, including <u>CHMB16H3</u>. It is strongly recommended that <u>BIOB12H3</u> be completed prior to the first work term.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>
- This course will be completed eight months in advance of the first scheduled work term

### 3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term

- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **MAJOR PROGRAM IN CHEMISTRY (SCIENCE)**

Supervisor: S. Mikhaylichenko (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 credits:

### First Year:

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA36H3</u> Calculus II for Physical Sciences <u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA21H3</u> Physics II for the Physical Sciences

### **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 credits in CHM of which at least 2.0 credits must be at the C- or D-level and 0.5 credit at

2.5 credits in CHM of which at least 2.0 credits must be at the C- or D-level and 0.5 credit at the D-level. 0.5 of these C- or D-level credits must include a laboratory component.\*\*

\*\* Students should note that if they are going to select <u>CHMC20H3</u>/ <u>CHMC21H3</u>, <u>MATA23H3</u> and <u>MATB41H3</u> will need to be taken in addition to their other program requirements.

**Note:** This program cannot be combined with the Major Program in Biochemistry. However, when students are selecting their course of studies, they should refer to the University of Toronto guidelines for program breadth and depth requirements (see Degree Requirements).

## MAJOR (CO-OPERATIVE) PROGRAM IN CHEMISTRY (SCIENCE)

Co-op Supervisor of Studies: S. Dalili (416-287-7215) Email: sdalili@utsc.utoronto.ca

### Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Major (Co-op) Program in Chemistry is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Chemistry upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>MATA30H3</u>, <u>MATA36H3</u>, <u>PHYA10H3</u> and <u>PHYA21H3</u>, plus a cumulative GPA (CGPA) of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Chemistry.

### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Chemistry and have completed at least 7.0 credits, including <u>CHMB16H3</u>.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: <u>COPD12H3</u> and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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, multistep 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, CHM220H, 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 Requirements: 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 Requirements: 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 Requirements: 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 & CHMB41H3 Exclusion: CHM247H, CHM249H Breadth Requirements: 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. Exclusion: CHMB41H3, CHMB42H3, CHM138H, CHM151Y, CHM247H, CHM249H, CHM242H, CHM245H Enrolment Limits: 44 Breadth Requirements: 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 and CHMA11H3 Exclusion: CHM310H Breadth Requirements: 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 Exclusion: BIOC12H3, BIOC13H3, BCH210H, BCH242Y, BCH311H, CHM361H, CHM362H Breadth Requirements: 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 and CHMB21H3 Breadth Requirements: 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 Requirements: Natural Sciences

## CHMC20H3 - Intermediate Physical Chemistry

Basic statistical mechanics and applications to thermochemistry and kinetics; intermolecular interactions; concepts in reaction dynamics.

**Prerequisite:** CHMB23H3 and CHMB21H3 and MATB41H3 and PHYA21H3 **Breadth Requirements:** 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] and CHMB21H3 and MATB41H3 and PHYA21H3 **Breadth Requirements:** 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 Requirements:** 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 CHMB23H3] and CHMB31H3 and CHMB42H3 Exclusion: CHM338H and CHM331H Enrolment Limits: 20 Breadth Requirements: 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 and CHMB42H3 Exclusion: CHM348H Breadth Requirements: Natural Sciences

## CHMC42H3 - Organic Synthesis

Principles of synthesis organic and functional group transformations; compound stereo-chemistry, spectroscopy and structure elucidation. Offered in evennumbered years alternating with CHMC41H3. This course includes a four hour laboratory every week.

Prerequisite: CHMB41H3 and CHMB42H3 Exclusion: CHM346H Breadth Requirements: 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 and CHMB42H3 **Exclusion:** CHM347H **Breadth Requirements:** 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: CHM317H, CHM410H Enrolment Limits: 18 Breadth Requirements: 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 and BIOC13H3] or CHMB62H3] and CHMC31Y3 Exclusion: CHM333H, CHM437H Breadth Requirements: 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] and CHMC47H3 Exclusion: CHM440H Recommended Preparation: [BIOC12H3 and BIOC13H3] or CHMB62H3 Breadth Requirements: Natural Sciences Note: Students are cautioned that CHMD69H3 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 and [ CHMC41H3 or CHMC42H3] Recommended Preparation: CHMC31Y3 Enrolment Limits: 15 Breadth Requirements: Natural Sciences

## **CHMD90Y3 - Directed Research**

*Course Coordinators*: Artur Izmaylov (416 208-2951) <u>aizmaylov@utsc.utoronto.ca</u> and Frank Wania (416 287-7225) <u>frank.wania@utoronto.ca</u>

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 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 CHMD90Y3, 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: <u>aizmaylov@utsc.utoronto.ca</u> and Frank Wania (416 287-7225) Email: <u>frank.wania@utoronto.ca</u>

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 Requirements: 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
- <u>M.L. Kohn</u>, 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
- <u>A. Sorensen</u>, B.F.A. (Nova Scotia College of Art and Design), M.Sc., Ph.D. (London), Professor

For curriculum inquiries please contact the CIT Program Advisor. Email: cit-advisor@utsc.utoronto.ca

Our department offers pre-professional programs 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 Specialist, Major and Minor Program in City Studies are multidisciplinary: they are 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 programs also offer preparation for students interested in pursuing graduate education in a field of study related to cities.

### Guidelines for first year course selection

Students intending to complete a program in City Studies should take at least 1.0 credit from the courses listed in Requirement 1 of the Specialist Program in City Studies within their first 4.0 credits.

### **Guidelines for Major Program Completion**

The City Studies curriculum has three areas of concentration: (1) City-Building, (2) Community Development and (3) City Governance.

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, <u>CITB02H3</u> Foundations of City Studies (required for all Specialist, Major and Minor students in City Studies), <u>CITB01H3</u> Canadian Cities and Planning, <u>CITB03H3</u> Social Planning and Community Development, <u>CITB04H3</u> City Politics, or <u>CITB08H3</u> Economy of Cities. These core courses cover foundational concepts of the program and are considered essential preparation for upper level courses.

### Areas of Concentration Table:

City Building	Community Development	City Governance
<u>CITC03H3</u> Real Estate and the City <u>CITC04H3</u> Current Municipal and Planning Policy and Practice in Toronto <u>CITC14H3</u> Environmental Planning <u>CITC18H3</u> Transportation Policy Analysis	<u>CITC01H3</u> Urban Communities and Neighbourhoods Case Study <u>CITC02H3</u> Learning in Community Service <u>CITC07H3</u> Urban Social Policy <u>CITC08H3</u> Cities and Community Development	CITC12H3 City Structures and City Choices: Local Government, Management, and Policymaking <u>CITC15H3</u> Taxing and Spending: Public Finance in Canadian Cities <u>CITC16H3</u> Planning and Governing the Metropolis <u>CITC17H3</u> Civic Engagement in Urban Politics

### Notes:

1. It is Department policy that students without the prerequisites will be removed from the course. Students should carefully check the prerequisites required for particular B-and C-level courses.

2. Some upper-level courses (e.g. SOC and MGE) are part of limited enrolment programs, with first preference in these courses going to students enrolled in the associated programs.

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **City Studies Programs**

## SPECIALIST PROGRAM IN CITY STUDIES (ARTS)

The Specialist program in City Studies (BA) will provide students 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).

### **Enrolment 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 SOCA03Y3 Introduction to Sociology

### 2. Core courses (2.0 credits as follows):

<u>CITB02H3</u> Foundations of City Studies and 1.5 credits from among the following: <u>CITB01H3</u> Canadian Cities and Planning <u>CITB03H3</u> Social Planning and Community Development <u>CITB04H3</u> City Politics <u>CITB08H3</u> Economy of Cities

### 3. Research Methods (2.0 credits):

<u>STAB23H3</u> Introduction to Statistics for the Social Sciences (or equivalent) <u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning [ <u>GGRB30H3</u> Fundamentals of GIS I or <u>GGRB03H3</u> Writing Geography] [ <u>GGRC32H3</u> Essential Spatial Analysis or <u>GGRC31H3</u> Qualitative Geographical Methods: Place and Ethnography]

### 4. City Studies Applications (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 Current Municipal and Planning Policy and Practice in Toronto

CITC07H3 Urban Social Policy

CITC08H3 Cities and Community Development

CITC09H3 Introduction to Planning History: Toronto and Its Region

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

### 5. Approaches to Cities (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):

<u>CITD05H3</u> City Studies Workshop I <u>CITD06H3</u> City Studies Workshop II

### 7. Advanced Applications (1.0 credit):

<u>CITD01H3</u> City Issues and Strategies <u>CITD10H3</u> Seminar in Selected Issues in City Studies <u>CITD30H3</u> Supervised Research Project <u>GGRD14H3</u> Social Justice and the City

## **MAJOR PROGRAM IN CITY STUDIES (ARTS)**

### **Program Requirements**

This program requires students to complete a total of 7.0 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 POLA01H3 Critical Issues in Politics I POLA02H3 Critical Issues in Politics II SOCA03Y3 Introduction to Sociology <u>GGRA02H3</u> The Geography of Global Processes <u>GGRA03H3</u> Cities and Environments [<u>MGEA01H3</u>/(<u>ECMA01H3</u>) Introduction to Microeconomics *or* <u>MGEA02H3</u>/(<u>ECMA04H3</u>) Introduction to Microeconomics: A Mathematical Approach] [<u>MGEA05H3</u>/(<u>ECMA05H3</u>) Introduction to Macroeconomics *or* <u>MGEA06H3</u>/(<u>ECMA06H3</u>) Introduction to Macroeconomics: A Mathematical Approach]

### 2. Core courses (1.5 credits as follows)

<u>CITB02H3</u> Foundations of City Studies and 1.0 credit from among the following: <u>CITB01H3</u> Canadian Cities and Planning <u>CITB03H3</u> Social Planning and Community Development <u>CITB04H3</u> City Politics <u>CITB08H3</u> Economy of Cities

### 3. Methods (1.0 credit as follows):

<u>STAB23H3</u> Introduction to Statistics for the Social Sciences and 0.5 credit from among the following: <u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning <u>GGRB30H3</u> Fundamentals of GIS I <u>GGRC31H3</u> Qualitative Geographical Methods: Place and Ethnography

### 4. City Studies Applications (at least 2.0 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 Current Municipal and Planning Policy and Practice in Toronto CITC07H3 Urban Social Policy CITC08H3 Cities and Community Development CITC09H3 Introduction to Planning History: Toronto and Its Region 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

### 5. Approaches to Cities (at least 1.5 credits from among the following):

ANTC18H3 Urban Anthropology

[EESA05H3 Environmental Hazards or EESA06H3 Introduction to Planet Earth]

EESD20H3 Geological Evolution and Environmental History of North America

GGRB02H3 The Logic of Geographic Thought

GGRB05H3 Urban Geography

GGRB13H3 Social Geography

GGRB28H3 Geographies of Disease

<u>GGRC02H3</u> 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

<u>GGRC40H3</u> Megacities and Global Urbanization <u>GGRC48H3</u> Geographies of Urban Poverty <u>GGRD09H3</u> Feminist Geographies <u>GGRD14H3</u> Social Justice and the City <u>HISC58H3</u> Delhi and London: Imperial Cities, Mobile People <u>POLB50Y3</u> Canadian Government and Politics <u>POLC53H3</u> Canadian Environmental Policy <u>PPGC66H3/(POLC66H3)</u> Public Policy Making <u>PPGC67H3/(POLC67H3)</u> Public Policy in Canada <u>SOCB44H3</u> Sociology of Cities and Urban Life <u>SOCC26H3</u> Sociology of Suburbs and Suburbanization <u>WSTB12H3</u> Women, Violence and Resistance <u>WSTC14H3</u> Women, Gender and Environmental (In)Justice

## **MAJOR (CO-OPERATIVE) PROGRAM IN CITY STUDIES (ARTS)**

### Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in City Studies is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to City Studies upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in City Studies.

### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in City Studies and have completed at least 10.0 credits.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of

their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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.

### **Program Requirements**

The program requires the completion of 4.0 credits as follows:

1. Foundations (0.5 credit): <u>CITB02H3</u> Foundations of City Studies

### 2. Core Courses (1.5 credits from the following):

<u>GGRB05H3</u> Urban Geography <u>CITB01H3</u> Canadian Cities and Planning <u>CITB03H3</u> Social Planning and Community Development <u>CITB04H3</u> City Politics <u>CITB08H3</u> Economy of Cities

### 3. Applications (2.0 credits at the C- or D-level, from the following):

<u>CITC01H3</u> Urban Communities and Neighbourhoods Case Study: East Scarborough <u>CITC03H3</u> Real Estate and the City <u>CITC04H3</u> Current Municipal and Planning Policy and Practice in Toronto <u>CITC07H3</u> 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

**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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements:** 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, nonprofit 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 Requirements:** 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 <u>cit-</u> <u>advisor@utsc.utoronto.ca</u>

## 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 <u>cit-advisor@utsc.utoronto.ca</u>

## 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:** (GGRB10H3) **Enrolment Limits:** 60 **Breadth Requirements:** Social & Behavioural Sciences

## CITC04H3 - Current Municipal and Planning Policy and Practice in Toronto

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 Requirements:** Social & Behavioural Sciences

## 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 Requirements: 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

Enroiment Limits: 30

**Breadth Requirements:** 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 <u>cit-</u> <u>advisor@utsc.utoronto.ca</u>

## CITC09H3 - Introduction to Planning History: Toronto and Its Region

An introduction to the study of the history of urban planning with particular emphasis on the investigation of the planning ideas, and the plans, that have shaped Toronto and its surrounding region through the twentieth century. The course will consider international developments in planning thought together with their application to Toronto and region.

**Prerequisite:** At least 1.5 credits at the B-level in ONE of the following course subject areas: CIT or GGR or POL or SOC

Enrolment Limits: 60

Breadth Requirements: Social & Behavioural Sciences

## 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 Requirements: 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 specialpurpose bodies, and their roles in the making and implementation of public policies; ethical and conflict-ofinterest 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Management or Political Science or Sociology **Enrolment Limits:** 60 **Breadth Requirements:** 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 Requirements:** 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 Requirements: Social & Behavioural Sciences

## 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

Breadth Requirements: Social & Behavioural Sciences

## CITD05H3 - City 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 Requirements:** 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.

## 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 Requirements: 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.

## 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 Requirements:** 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 Requirements: Social & Behavioural Sciences

## **Classical Studies**

#### **Faculty List**

• K. Blouin, M.A., Ph.D. (Laval and Nice), Associate Professor

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 expression "classical" is commonly used to designate the areas and periods populated or dominated by the Greeks and Romans. 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 all courses the ancient written sources are studied in translation.

### **Guidelines for First Year Course Selection**

Students who intend to complete the Minor program in Classics should include <u>CLAA04H3</u> and <u>CLAA06H3</u> in their first year course selection.

For updates and detailed information regarding Classical Studies please visit the <u>Department of Historical and Cultural</u> <u>Studies website</u>.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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 4.0 credits, as follows:

#### 1. Introduction

CLAA04H3 The Ancient Mediterranean World

#### 2. History and Culture

<u>CLAB05H3</u> History and Culture of the Greek World <u>CLAB06H3</u> 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)** <u>CLAC11H3</u> Classical Literature I: Poetry <u>CLAC12H3</u> Classical Literature II: Prose 5. Electives (1.5 credits from the following courses, including at least 1.0 credit at the C or D-level; before choosing their electives, students need to take at least 1.0 credit at the A-level, 1.0 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.)

(VPHB52H3) 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

(<u>LGGA50H3</u>) Introductory Latin I (<u>LGGA51H3</u>) Introductory Latin II (<u>LGGA54H3</u>) Introductory Sanskrit I (<u>LGGA55H3</u>) Introductory Sanskrit II (<u>LGGB54H3</u>) Intermediate Sanskrit I (LGGB55H3) Intermediate Sanskrit II

Philosophy

PHLB16H3 Political Philosophy: Ancient Greece and the Middle Ages PHLB31H3 Introduction to Ancient Philosophy PHLC32H3 Topics in Ancient Philosophy: Aristotle

Religion

(<u>RLGB01H3</u>) The "Holy Book" in Judaism, Christianity and Islam (<u>RLGC01H3</u>) The Five Books of Moses

(RLGC02H3) The Gospels

(RLGC03H3) Paul and the Invention of Christianity

( <u>RLGC04H3</u>) Hindu Epic

RLGC05H3 The Qu'ran in Interpretive and Historical Context

Anthropology

(<u>ANTB04H3</u>) Artifacts and Prehistory (<u>ANTB12H3</u>) 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 (<u>CLAA02H3</u>) or (<u>CLAA03H3</u>) for <u>CLAA06H3</u> in Requirement

## 3. Students who have completed both (<u>CLAA02H3</u>) and (<u>CLAA03H3</u>) may substitute one of the courses for <u>CLAA04H3</u> 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 HISA07H3

**Exclusion:** HISA07H3 **Breadth Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

## 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: CLA231H, HISB11H3 Recommended Preparation: CLAB05H3 Breadth Requirements: 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 Requirements: 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 Requirements:** 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 Requirements:** 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), HISC10H3.

Prerequisite: 2.0 credits in CLA or HIS courses, including 2 of the following [ CLAA04H3/ HISA07H3, CLAB05H3/ HISB10H3, CLAB06H3/ HISB11H3] Exclusion: (IEEC52H3), HISC10H3 Breadth Requirements: 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 Requirements:** 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 and CLAC11H3 **Breadth Requirements:** 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 and CLAA06H3 Breadth Requirements: 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 HISC11H3

Prerequisite: One full credit in Classics or History Exclusion: HISC11H3 Recommended Preparation: CLAB05H3 and CLAB06H3 Breadth Requirements: History, Philosophy & Cultural Studies

## CLAC68H3 - Constructing the Other: Orientalism through Time and Place

This course reflects on the concept of *Orientalism* and how it informs the fields of Classical Studies and Anthropology. Topics to be discussed include the Orientalization of the past and the origin, role, and significance of ancient representations of the "Other" in contemporary discourses. Same as ANTC58H3 and HISC68H3

Prerequisite: 1.0 credit from the following: [CLAA04H3/ HISA07H3, CLAB05H4/ HISB10H3, CLAB06H3/ HISB11H3, ANTA02H3, ANTB19H3, ANTB20H3, HISB02H3, AFSB50H3/ HISB50H3, AFSB51H3/ HISB51H3, HISB53H3, HISB57H3, HISB58H3, HISB60H3, HISB61H3, HISB62H3, HISB93H3, HISB94H3] Exclusion: ANTC58H3, HISC68H3 Enrolment Limits: 40 Breadth Requirements: 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 and CLAB06H3 Enrolment Limits: 15 Breadth Requirements: History, Philosophy & Cultural Studies

## **Cognitive Science**

There are no programs in Cognitive Science, however, the courses identified below are offered for 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

(<u>www.utsc.utoronto.ca/psych/undergraduates</u>) 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

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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.

## **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**

## 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
- Physics and Astrophysics (Specialist), Honours Bachelor of Science/ Master of Teaching
- Physical and Mathematical Sciences (Specialist), 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:

UTSC Program	MT Teaching Subjects - Required Number of Courses/Credits Completed	
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 Physical 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	
Specialist/Specialist Co-op in French	French (Second Language)	
Major/Major Co-op in French	French (Second Language)	

### 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 (Cand D-level) courses;
  - o Students must complete the requirements of their chosen undergraduate program;
  - o Students must demonstrate conferral of the BSc/BA degree;
  - Students must provide at least two letters of reference (see: <u>http://www.oise.utoronto.ca/mt/Home.html</u>);
  - 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 resumé, applicants are requested to list, in chart form, the extent of their teaching experiences. The chart should include dates, location of experience, role, and number of hours working with students.
- 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 credit graduate courses;
- In Year 4 of undergraduate studies, combined degree program students must take 1.0 credit in elective graduate courses recommended for Combined Degree Program students by the OISE MT program. The 1.0 graduate credit 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-time Time Limit: BSc/BA + 3 years MT

### **Contact Information:**

University of Toronto Scarborough:

- 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

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 Biology (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Biology (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, 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 Geoscience (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, 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
- Environmental Physics (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, 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 credits 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 credit) as part of the BSc degree requirements.
- Complete 10 half courses (5.0 credits) required for the Master of Engineering program.

- Up to 1.0 credit 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

### **Contact Information:**

Mandy Meriano(416-208-2775) Email: <u>mmeriano@utsc.utoronto.ca</u>

## COMBINED DEGREE PROGRAMS, MENTAL HEALTH STUDIES (SPECIALIST), 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

### 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 credits 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;
  - o 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 credits 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, <u>PSYD98Y3</u> (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, <u>PSYD37H3</u> (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

### **Contact Information:**

Department of Psychology Email: <u>psychology-undergraduate@utsc.utoronto.ca</u>
## **Computer Science**

#### Faculty List

- <u>M. Ahmadzadeh</u>, B.Sc. (Isfahan), M.Sc., Ph.D. (Nottingham), CLTA Assistant Professor, Teaching Stream
- A. Anderson, B.Eng. (McGill), M.Sc., Ph.D. (Stanford), Assistant Professor
- <u>A. Attarwala</u>, B.Sc. (Waterloo), M.Sc. (Georgia Tech), M.ASc. (University of Toronto), M.ASc. (Waterloo), CLTA Assistant Professor, Teaching Stream
- A. Bretscher, B.Sc., M.Sc. (Queen's), Ph.D. (Toronto), Associate Professor, Teaching Stream
- <u>N. Cheng</u>, B.Sc. (Toronto), Associate Professor, Teaching Stream
- <u>W.H. Enright</u>, 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
- G. Hirst, B.A., B.Sc. (Monash), M.Sc. (A.N.U., U.B.C.), Ph.D. (Brown), Professor
- 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
- <u>G. Pekhimenko</u>, B.Sc. (Taurida), M.Sc., (Toronto), Ph.D. (Carnegie Mellon), Assistant Professor
- A. Rosselet, B.Sc. (NCSU), M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream Emeritus
- <u>T. Sans</u>, B.Sc. (Paul Sabatier), M.Sc. (Supaero), Ph.D. (Telecom-Bretagne), Assistant Professor, Teaching Stream
- <u>B. Schroeder</u>, M.Sc. (Saarbrucken), Ph.D. (Carnegie Mellon), Associate Professor
- <u>A. Tafliovich</u>, Hon. B.Sc., M.Sc., Ph.D. (Toronto), Associate Professor, Teaching Stream

#### Associate Chair: B. Schroeder 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 Specialist, Major, and Minor 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 will be permitted to take CSC courses as required in their programs. Otherwise 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 3.0 may not take any B- level CSC course, with the exception of CSCB20H3.
- 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

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the 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.

#### **Enrolment Requirements**

Enrolment in the Specialist in Computer Science (all streams) is limited. Students may apply to enter the program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of at least 3.0 across the core A-level courses (<u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, and <u>MATA37H3</u>) are guaranteed admission.

Admission to the Entrepreneurship stream also requires the submission of a Supplementary Application Form (SAF) available from the <u>CMS website</u>.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>CSCB07H3</u>, <u>CSCB09H3</u>, <u>CSCB36H3</u>, <u>CSCB63H3</u>, and one of <u>MATB24H3</u> or <u>STAB52H3</u>. Students with a CGPA of at least 3.0 across the B-level courses in the above list (<u>CSCB07H3</u>\*, <u>CSCB09H3</u>\*, <u>CSCB36H3</u>\*, <u>CSCB63H3</u>\*, and the best of <u>MATB24H3</u> or <u>STAB52H3</u>) are guaranteed admission.

\* These courses have a CS subject POSt or minimum CGPA prerequisite.

To remain in the program, a student must maintain a CGPA of 2.0 or higher throughout the program.

#### **Program Requirements**

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)\*

0.5 credit from the following: <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CTLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGA10H3</u>, <u>ENGA11H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>, <u>ENGB09H3</u>, <u>ENGB17H3</u>, <u>ENGB19H3</u>, <u>ENGB50H3</u>, (<u>ENGB51H3</u>), <u>GGRA02H3</u>, <u>GGRA03H3</u>, <u>GGRB05H3</u>, (<u>GGRB06H3</u>), (<u>HISA01H3</u>), (<u>HLTA01H3</u>), <u>ACMA01H3</u>, (<u>HUMA01H3</u>), (<u>HUMA11H3</u>), (<u>HUMA17H3</u>), (<u>LGGA99H3</u>), <u>LINA01H3</u>, <u>PHLA10H3</u>, <u>PHLA11H3</u>, <u>WSTA01H3</u>. **\*Note:** 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 MATA22H3 Linear Algebra I for Mathematical Sciences MATA31H3 Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences

#### 3. B-level courses (3.5 credits)

<u>CSCB07H3</u> Software Design <u>CSCB09H3</u> Software Tools and Systems Programming <u>CSCB36H3</u> Introduction to the Theory of Computation <u>CSCB63H3</u> Computer Organization <u>CSCB63H3</u> Design and Analysis of Data Structures <u>MATB24H3</u> Linear Algebra II <u>STAB52H3</u> Introduction to Probability

## 4. C-level courses (1.5 credits)

<u>CSCC43H3</u> Introduction to Databases <u>CSCC69H3</u> Operating Systems <u>CSCC73H3</u> 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)

<u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>CSCC24H3</u> Principles of Programming Languages <u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>CSCC63H3</u> Computability and Computational Complexity <u>CSCD37H3</u> Analysis of Numerical Algorithms for Computational Mathematics

7. Electives from courses on computer systems and applications (1.0 credit)

Choose from: CSCC01H3 Introduction to Software Engineering CSCC09H3 Programming on the Web CSCC10H3 Human-Computer Interaction CSCC11H3 Introduction to Machine Learning and Data Mining CSCC46H3 Social and Information Networks 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 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)

Choose from: <u>MATC09H3</u> Introduction to Mathematical Logic <u>MATC32H3</u> Graph Theory and Algorithms for its Applications <u>MATC44H3</u> Introduction to Combinatorics <u>MATD16H3</u> Coding Theory and Cryptography CSC438H Computability and Logic CSC448H Formal Languages and Automata CSC465H Formal Methods in Software Design

## 9. CSC, MAT, or STA elective (0.5 credit)

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)

<u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>CSCC01H3</u> Introduction to Software Engineering <u>CSCC24H3</u> Principles of Programming Languages <u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>CSCC63H3</u> Computability and Computational Complexity <u>CSCD01H3</u> Engineering Large Software Systems

#### 7. Electives from courses on computer systems and applications (1.5 credits)

Choose from:

<u>CSCC09H3</u> Programming on the Web <u>CSCC10H3</u> Human-Computer Interaction <u>CSCC11H3</u> Introduction to Machine Learning and Data Mining <u>CSCC46H3</u> Social and Information Networks <u>CSCC85H3</u> Introduction to Embedded Systems <u>CSCD18H3</u> Computer Graphics <u>CSCD27H3</u> Computer and Network Security <u>CSCD43H3</u> Database System Technology <u>CSCD58H3</u> Computer Networks CSCD84H3 Artificial Intelligence 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)

<u>MGTA01H3</u>/(<u>MGTA03H3</u>) Introduction to Business <u>MGTA02H3</u>/(<u>MGTA04H3</u>) Managing the Business Organization <u>MGHB02H3</u> Managing People and Groups in Organizations

#### 7. Additional required mathematics and computer science courses (3.0 credits)

<u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>CSCC01H3</u> Introduction to Software Engineering <u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>CSCC63H3</u> Computability and Computational Complexity <u>CSCD01H3</u> Engineering Large Software Systems <u>CSCD43H3</u> Database System Technology

#### 8. Electives from courses on computer systems and applications (1.0 credit)

Choose from: CSCC09H3 Programming on the Web CSCC10H3 Human-Computer Interaction CSCC11H3 Introduction to Machine Learning and Data Mining CSCC46H3 Social and Information Networks CSCC85H3 Introduction to Embedded Systems CSCD18H3 Computer Graphics CSCD27H3 Computer and Network Security CSCD58H3 Computer Networks CSCD84H3 Artificial Intelligence 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 (2.0 credits)

<u>PHLB09H3</u> Biomedical Ethics (<u>MGTA06H3</u>) Introduction to Health Management\*

and

0.5 credit from the following:(courses on health policy and politics) <u>HLTB16H3</u> Introduction to Public Health (<u>HLTB17H3</u>) Conceptual Models of Health <u>HLTB40H3</u> Health Policy and Health Systems (HLTC40H3) Introduction to Health Economics 0.5 credit from the following: (other courses on health studies)
<u>HLTB22H3</u> Biological Determinants of Health
(<u>HLTC05H3</u>) 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)

<u>CSCC01H3</u> Introduction to Software Engineering <u>STAB57H3</u> Introduction to Statistics <u>STAC50H3</u> Data Collection

## 8. Additional CSC, MAT and STA courses (2.5 credits)

MATB41H3 Techniques of the Calculus of Several Variables I

2.0 credits in 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: <u>CSCC09H3</u>, <u>CSCC09H3}, <u>CSCC09H3</u>, <u>CSC09H3</u>, <u>CSC09H3</u></u>

## 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)

<u>CSCC01H3</u> Introduction to Software Engineering <u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>CSCC63H3</u> Computability and Computational Complexity <u>CSCD01H3</u> Engineering Large Software Systems <u>CSCD54H3</u> Technology Innovation and Entrepreneurship <u>CSCD90H3</u> The Startup Sandbox

## 7. Electives from courses in computer science, mathematics, and statistics (1.5 credits)

Choose from: MATB41H3 Techniques of the Calculus of Several Variables I STAB57H3 Introduction to Statistics CSCC09H3 Programming on the Web CSCC10H3 Human-Computer Interaction CSCC11H3 Introduction to Machine Learning and Data Mining CSCC24H3 Principles of Programming Languages CSCC46H3 Social and Information Networks CSCC85H3 Introduction to Embedded Systems CSCD18H3 Computer Graphics CSCD27H3 Computer and Network Security CSCD43H3 Database System Technology CSCD58H3 Computer Networks CSCD84H3 Artificial Intelligence 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: <u>pancer@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

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 the 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-op) 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.

#### **Enrolment Requirements**

Enrolment in the program is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of at least 3.0 across the core A-level courses (<u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, and <u>MATA37H3</u>), as well as a CGPA of at least 2.50 across all attempted courses, are guaranteed admission.

Admission to the Entrepreneurship Stream also requires the submission of a Supplementary Application Form available from the CMS website.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>CSCB07H3</u>, <u>CSCB09H3</u>, <u>CSCB36H3</u>, <u>CSCB63H3</u> and one of <u>MATB24H3</u> or <u>STAB52H3</u>. Students with a CGPA of at least 3.0 across the B-level courses in the above list (<u>CSCB07H3</u>\*, <u>CSCB09H3</u>\*, <u>CSCB36H3\*</u>, <u>CSCB63H3\*</u>, and the best of <u>MATB24H3</u> or <u>STAB52H3</u>), as well as a CGPA of at least 2.5 across all attempted courses, are guaranteed admission.

\*These courses have a CS subject POSt or minimum CGPA prerequisite.

*Prospective Co-op Students:* Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.75 across all attempted courses. In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op

Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Coop Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Computer Science. To remain in the program, students must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, students must meet the work term and course requirements described below.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration, one of which can be during the summer. To be eligible for their first work term, students must be enrolled in the Specialist (Co-operative) Program in Computer Science and have completed at least 7.0 credits, including all first year required courses (CSCA08H3, CSCA48H3, CSCA67H3, MATA22H3, MATA31H3, MATA37H3).

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

## 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

#### 3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term

4. <u>COPD12H3</u> – Integrating Your Work Term Experience Part I

- Prerequisite: <u>COPD11H3</u> and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

#### 5. <u>COPD13H3</u> – Integrating Your Work Term Experience Part II

- Prerequisite: COPD12H3 and two Co-op work terms

- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session. For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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.

## **Enrolment Requirements**

Enrolment in the Major in Computer Science is limited.

Students may apply to enter the program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of at least 3.0 across the core A-level courses (<u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, and <u>MATA37H3</u>) are guaranteed admission.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>CSCB07H3</u>, <u>CSCB09H3</u>, <u>CSCB36H3</u>, <u>CSCB63H3</u>, and one of <u>MATB24H3</u> or <u>STAB52H3</u>. Students with a CGPA of at least 3.0 across the B-level courses in the above list (<u>CSCB07H3</u>\*, <u>CSCB09H3</u>\*, <u>CSCB36H3</u>\*, <u>CSCB63H3</u>\*, and the best of <u>MATB24H3</u> or <u>STAB52H3</u>) are guaranteed admission.

\*These courses have a CS subject POSt or minimum CGPA prerequisite.

## **Program Requirements**

This program requires a total of 16 distinct courses (8.0 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 (3.0 credits)

<u>CSCA08H3</u> Introduction to Computer Science I <u>CSCA48H3</u> Introduction to Computer Science II <u>CSCA67H3</u> Discrete Mathematics <u>MATA22H3</u> Linear Algebra I for Mathematical Sciences <u>MATA31H3</u> Calculus I for Mathematical Sciences MATA37H3 Calculus II for Mathematical Sciences

## 2. B-level courses (3.0 credits)

<u>CSCB07H3</u> Software Design <u>CSCB09H3</u> Software Tools and Systems Programming <u>CSCB36H3</u> Introduction to the Theory of Computation <u>CSCB58H3</u> Computer Organization <u>CSCB63H3</u> Design and Analysis of Data Structures and 0.5 credit from the following\*: <u>MATB24H3</u> Linear Algebra II <u>STAB52H3</u> Introduction to Probability

\***Note**: 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 (1.0 credit)

<u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics and

0.5 credit from the following:

CSCC63H3 Computability and Computational Complexity

CSCC73H3 Algorithm Design and Analysis

## 4. CSC electives (1.0 credit)

1.0 credits in 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: <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CTLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGA10H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>, <u>ENGB17H3</u>, <u>ENGB19H3</u>, <u>ENGB50H3</u>, (<u>ENGB51H3</u>), <u>GGRA02H3</u>, <u>GGRA03H3</u>, <u>GGRB05H3</u>, (<u>GGRB06H3</u>), (<u>HISA01H3</u>), (<u>HIXA01H3</u>), (<u>HIXA01H3</u>

## MAJOR (CO-OPERATIVE) PROGRAM IN COMPUTER SCIENCE (SCIENCE)

Supervisor of Studies: R. Pancer (416-287-7679) E-mail: <u>pancer@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Major (Co-op) Program in Computer Science is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides student with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Computer Science upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

Enrolment in the Program is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program. Students with a CGPA of at least 3.0 across the core A-level courses (<u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, and <u>MATA37H3</u>), as well as a CGPA of at least 2.50 across all attempted courses, are guaranteed admission.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>CSCB07H3</u>, <u>CSCB09H3</u>, <u>CSCB36H3</u>, <u>CSCB63H3</u> and one of <u>MATB24H3</u> or <u>STAB52H3</u>. Students with a CGPA of at least 3.0 across the B-level courses in the above list (<u>CSCB07H3</u>\*, <u>CSCB09H3</u>\*, <u>CSCB36H3</u>\*, <u>CSCB63H3</u>\*, <u>CSCB63H3</u>\*, and the best of <u>MATB24H3</u> or <u>STAB52H3</u>), as well as a CGPA of at least 2.5 across all attempted courses, are guaranteed admission.

\* These courses have a CS subject POSt or minimum CGPA prerequisite.

#### Prospective Co-op Students:

Prospective students (i.e., those not yet admitted to a Co-op Degree POSt) must meet the enrolment requirements noted above and have a CGPA of at least 2.75 across all attempted courses.

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year.

Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

The course requirements of the Co-operative Major Program in Computer Science are identical to those of the Major Program in Computer Science.

To remain in the program, students must maintain a CGPA of 2.5 or higher throughout the program. To complete the program, students must meet the work term and course requirements described below.

## **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration, one of which can be during the summer. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Computer Science and have completed at least 7.0 credits, including all first year required courses (<u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, <u>MATA37H3</u>).

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

## Co-op Preparation Course Requirements:

1. COPD01H3 – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term

#### 3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

#### 5. <u>COPD13H3</u> – Integrating Your Work Term Experience Part II

- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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.

## **Enrolment Requirements**

Enrolment in the Minor in Computer Science is limited.

Students may apply to enter the program after completing 4.0 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 3.0 across <u>CSCA48H3</u> and their chosen MAT course (0.5 credit from the following: <u>MATA22H3</u>, <u>MATA23H3</u>, <u>MATA30H3</u>, <u>MATA31H3</u>, <u>MATA32H3</u>, or <u>CSCA67H3/MATA67H3</u>), and at least a B grade in <u>CSCA48H3</u> are guaranteed admission. 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 as follows:

<u>CSCA08H3</u> Introduction to Computer Science I\* <u>CSCA48H3</u> Introduction to Computer Science II \*Note: <u>CSCA20H3</u> may be substituted for <u>CSCA08H3</u> with permission of the Supervisor of Studies.

## 2. Basic mathematics courses, 0.5 credit from the following:

<u>CSCA67H3/MATA67H3</u> Discrete Mathematics <u>MATA22H3</u> Linear Algebra I for Mathematical Sciences <u>MATA23H3</u> Linear Algebra I <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA31H3</u> Calculus I for Mathematical Sciences <u>MATA32H3</u> Calculus for Management I

## 3. Intermediate programming, systems, and theory courses, 1.5 credits from the following:

<u>CSCB07H3</u> Software Design <u>CSCB09H3</u> Software Tools and Systems Programming <u>CSCB20H3</u> Introduction to Databases and Web Applications <u>CSCB36H3</u> Introduction to the Theory of Computation\*\* <u>CSCB58H3</u> Computer Organization <u>CSCB63H3</u> Design and Analysis of Data Structures\*\*\* \*\*<u>CSCB36H3</u> requires <u>CSCA67H3</u> \*\*\*<u>CSCB63H3</u> requires <u>CSCB36H3</u>

## 4. CSC electives, 1.0 credit as follows:

Any C- or D-level CSC courses\*

\***Note**: 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 and Vectors and one other Grade 12 mathematics course. **Exclusion:** CSCA20H3, CSC108H, CSC120H. CSCA08H3 may not be taken after or concurrently with CSCA48H3.

**Breadth Requirements:** 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 Requirements:** Quantitative Reasoning **Note:** This course does not require any prior exposure to computer programming.

## CSCA48H3 - Introduction to Computer Science II

Abstract data types and data structures for implementing them. Linked data structures. Object Oriented Programming. Encapsulation and information-hiding. Testing. Specifications. Analyzing the efficiency of programs. Recursion.

Prerequisite: CSCA08H3 Exclusion: CSC148H Breadth Requirements: 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 and one other Grade 12 mathematics course Exclusion: MATA67H3, (CSCA65H3), CSC165H, CSC240H, MAT102H Recommended Preparation: CSCA08H3 or CSCA20H3 Breadth Requirements: 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 2.75 or enrolment in a CSC Subject POSt or enrolment in a non-CSC Subject POSt for which this course is needed to satisfy program requirements] ] Exclusion: CSC207H Breadth Requirements: 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 and [CGPA 2.75 or enrolment in a CSC Subject POSt or enrolment in a non-CSC Subject POSt for which this course is needed to satisfy program requirements]] Exclusion: CSC209H Breadth Requirements: 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 entityrelationship 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 Requirements:** 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 and [(CSCA65H3) or CSCA67H3] and[CGPA 2.75 or enrolment in a CSC Subject POSt or enrolment in a non-CSC Subject POSt for which this course is needed to satisfy program requirements]] **Exclusion:** CSC236H. CSC240H

Breadth Requirements: 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] and [CGPA 2.75 or enrolment in a CSC Subject POSt or enrolment in a non-CSC Subject POSt for which this course is needed to satisfy program requirements]] **Exclusion:** CSC258H **Breadth Requirements:** Quantitative Reasoning

## CSCB63H3 - Design and Analysis of Data Structures

Design, analysis, implementation and comparison of efficient data structures for common abstract data types. Priority queues: heaps and mergeable heaps. Dictionaries: balanced binary search trees, B-trees, hashing. Amortization: data structures for managing dynamic tables and disjoint sets. Data structures for representing graphs. Graph searches.

Prerequisite: CSCB36H3 and [CGPA 2.75 or enrolment in a CSC Subject POSt or enrolment in a non-CSC Subject POSt for which this course is needed to satisfy program requirements]] Exclusion: CSC263H, CSC265H Breadth Requirements: 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, and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC301H, (CSCC40H3), (CSCD08H3) Breadth Requirements: Quantitative Reasoning

## CSCC09H3 - Programming on the Web

An introduction to software development on the web. Concepts underlying the development of programs that operate on the web. Operational concepts of the internet and the web, static and dynamic client content, dynamically served content, n-tiered architectures, web development processes and security on the web.

Prerequisite: CSCB09H3 and CSCC43H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC309H Breadth Requirements: 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, CSC318H Breadth Requirements: Quantitative Reasoning

## CSCC11H3 - Introduction to Machine Learning and Data Mining

An introduction to methods for automated learning of relationships on the basis of empirical data. Classification and regression using nearest neighbour methods, decision trees, linear and non-linear models, classconditional models, neural networks, and Bayesian methods. Clustering algorithms and dimensionality reduction. Model selection. Problems of over-fitting and assessing accuracy. Problems with handling large databases.

**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 Requirements:** 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 and CSCB09H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC324H Breadth Requirements: 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 Requirements: 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 and CSCB63H3 [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC343H Breadth Requirements: Quantitative Reasoning

# CSCC46H3 - Social and Information Networks

How networks underlie the social, technological, and natural worlds, with an emphasis on developing intuitions for broadly applicable concepts in network analysis. Topics include: introductions to graph theory, network concepts, and game theory; social networks; information networks; the aggregate behaviour of markets and crowds; network dynamics; information diffusion; popular concepts such as "six degrees of separation", the "friendship paradox", and the "wisdom of crowds".

**Prerequisite:** CSCB63H3 and STAB52H3 and [MATA22H3 or MATA23H3] and [a CGPA of 3.0 or enrolment in a CSC Subject POSt] **Breadth Requirements:** Quantitative Reasoning

## CSCC63H3 - Computability and Computational Complexity

Introduction to the theory of computability: Turing machines, Church's thesis, computable and noncomputable 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 and CSCC73H3 may be taken in any order, it is recommended that CSCC73H3 be taken first.

**Prerequisite:** CSCB36H3 and CSCB63H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] **Exclusion:** CSC363H, CSC365H, CSC364H **Breadth Requirements:** 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 and CSCB09H3 and CSCB58H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC369H Breadth Requirements: Quantitative Reasoning

## CSCC73H3 - Algorithm Design and Analysis

Standard algorithm design techniques: divide-andconquer, greedy strategies, dynamic programming, linear programming, randomization, and possibly others.

Prerequisite: CSCB63H3 and STAB52H3; [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC373H, CSC375H, CSC364H Breadth Requirements: Quantitative Reasoning

# CSCC85H3 - Introduction to Embedded Systems

The course covers the components and fundamental principles of operation of systems built around microprocessing 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: CSCB58H3 and CSCB09H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: ECE385H Recommended Preparation: CSCB07H3 Breadth Requirements: 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 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC302H, (CSCD08H3) Breadth Requirements: 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 Requirements: Social & Behavioural Sciences

## CSCD18H3 - Computer Graphics

The course will cover in detail the principles and algorithms used to generate high-quality, computer generated images for fields as diverse as scientific data visualization, modeling, computer aided design, human computer interaction, special effects, and video games. Topics covered include image formation, cameras and lenses, object models, object manipulation, transformations, illumination, appearance modeling, and advanced rendering via ray-tracing and path-tracing. Throughout the course, students will implement a working rendering engine in a suitable programming language.

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 Requirements: 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 and CSCB36H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: CSC427H Recommended Preparation: CSCC69H3 Breadth Requirements: 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, guadrature, and systems of ordinary differential equations will be studied.

Prerequisite: CSCC37H3 and MATB24H3 and MATB41H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] Exclusion: (CSCC50H3), (CSCC51H3), CSC350H, CSC351H

Breadth Requirements: Quantitative Reasoning

## CSCD43H3 - Database System Technology

Implementation of database management systems. Storage management, indexing, query processing, concurrency control, transaction management. Database systems on parallel and distributed architectures. Modern database applications: data mining, data warehousing, OLAP, data on the web. Object-oriented and objectrelational databases.

**Prerequisite:** CSCC43H3 and CSCC69H3 and CSCC73H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] **Exclusion:** CSC443H **Breadth Requirements:** 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 Coop programs in Computer Science Breadth Requirements: 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 and CSCB63H3 and STAB52H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] **Exclusion:** CSC458H

Breadth Requirements: Quantitative Reasoning

## **CSCD70H3 - Compiler Optimization**

The goal of this course is to examine the design and implementation of a compiler optimized for modern parallel architectures. Students will learn about common optimizations, intermediate representations (IRs), controlflow and dataflow analysis, dependence graphs, instruction scheduling, and register allocation. Advanced topics include static single assignment, memory hierarchy optimizations and parallelization, compiling for multicore machines, memory dependence analysis, automatic vectorization/thread extraction, and predicated/speculative execution.

**Prerequisite:** CSCB63H3 and CSCC69H3 and [CGPA 3.0 or enrolment in a CSC Subject POSt] **Breadth Requirements:** 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 and [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 and [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 and STAB52H3 and [CGPA 3.0 or enrolment in a CSC subject POSt] Exclusion: CSC484H, CSC384H Breadth Requirements: 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 Coop programs in Computer Science Breadth Requirements: 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 Requirements: 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] and [permission of the Supervisor of Studies] and [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**

The Concurrent Teacher Education Program (CTEP) is suspended to new enrolments. Students who are already enrolled in the Program should consult the 2013-14 *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 culturallyrooted school and/or community organization.

Prerequisite: PSYB21H3 or [( SOCA01H3) and ( SOCA02H3)]

Exclusion: CTE200H

**Breadth Requirements:** 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, crosscultural 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 Requirements: 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. (**Note:** course includes 12-20 hours of field placements)

Prerequisite: Enrolment in CTEP Exclusion: CTE100H, PSYB20H3, PSY210H Recommended Preparation: PSYA01H3 and PSYA02H3 Breadth Requirements: Social & Behavioural Sciences

## **Curatorial Studies**

Program Advisor: M. Hussain, Email: mhussain@utsc.utoronto.ca

The Department of Arts, Culture and Media offers a Minor in Curatorial Studies.

#### Service Learning and Outreach

For and experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the Calendar.

## **Curatorial Studies Programs**

## MINOR PROGRAM IN CURATORIAL STUDIES (ARTS)

Undergraduate Advisor: Email: acm-ua@utsc.utoronto.ca

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.

## **Enrolment 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: [<u>ACMB01H3</u>, <u>MDSA01H3</u>, <u>VPAA10H3</u>, <u>VPHA46H3</u>, <u>VPSA62H3</u>, <u>VPSA63H3</u>].

## **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:

<u>CRTB01H3</u> Introduction to Curating Art <u>VPSB73H3</u> Curatorial Perspectives I

#### 3. 1.0 credit as follows:

<u>CRTC72H3</u>/ <u>VPHC72H3</u> Art, the Museum, and the Gallery <u>VPSC51H3</u> Curatorial Perspectives II

**4. 0.5 credit from the following:** <u>MDSB62H3</u> Visual Culture and Communication <u>MDSC61H3</u> Alternative Media <u>MDSD01H3</u> Seminar: Topics in Media and Art <u>VPHB78H3</u> Our Town, Our Art: Local Collections I <u>VPHB79H3</u> Our Town, Our Art: Local Collections II <u>VPHC75H3</u> The Artist, Maker, Creator <u>CRTC80H3</u> Curator as Artist, Artist as Curator

## 5. 1.0 credit as follows:

<u>CRTD43H3</u> Curating Contemporary Art <u>CRTD44H3</u> 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 Requirements:** 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 Requirements: 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 Requirements: Arts, Literature & Language

## CRTC80H3 - Curator as Artist; Artist as Curator

Viewed from an artist's perspective, this course considers the exhibition as medium, and curating as a creative act. By studying the history of exhibitions organized by artists and artist collectives, this course considers their influence on contemporary curatorial practice with a focus on historical and contemporary Canadian exhibitions.

Prerequisite: CRTB01H3 Enrolment Limits: 20

**Breadth Requirements:** Arts, Literature & Language **Note:** Priority will be given to students enrolled in programs in Curatorial Studies, Art History and Visual Culture, Arts Management, Media Studies, and Studio.

## **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 Requirements:** 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 Requirements:** Arts, Literature & Language

## **Diaspora and Transnational Studies**

Program Advisor: Email: dts-advisor@utsc.utoronto.ca

The Major and Minor Programs in Diaspora and Transnational Studies are suspended to new enrolments. Students who are already enrolled in these programs should consult the 2013-14 *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 Requirements:** 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 Requirements:** Social & Behavioural Sciences

## **Double Degrees BBA/BSc**

## **Double Degree**

The Department of Computer and Mathematical Sciences, in partnership with the Department of Management offers the following Double Degree programs:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

The Double Degree programs create an accelerated pathway for students who would otherwise have to complete two separate Specialist programs. They explicitly focus on finance and quantitative methods, providing students with a thorough education in both the business and the quantitative aspects of the financial industry. The Double Degree Programs take advantage of existing synergies to allow students to complete both undergraduate programs and degrees within five years without compromising their learning experience. Students will complete a total of 25.0 credits and, for those enrolled in the Double Degree (Specialist Co-op programs), students must also complete three mandatory Co-op work terms.

## **Double Degree Programs**

## DOUBLE DEGREE: BBA, SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE / HONOURS BSc, SPECIALIST PROGRAM IN STATISTICS, QUANTITATIVE FINANCE STREAM

Academic Supervisors:

- S. Ahmed Email: mgmtss@utsc.utoronto.ca (BBA)
- S. Damouras Email: <u>sdamouras@utsc.utoronto.ca</u> (BSc)

This Double Degree program combines the Specialist Program in Management and Finance and the Specialist Program in Statistics, Quantitative Finance stream. Students completing the Double Degree program will qualify to graduate with two degree designations – the Bachelor of Business Administration (BBA) and the Honours Bachelor of Science (BSc), assuming all other degree criteria are met.

## **Enrolment Requirements**

Enrolment in this Double Degree program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English, Grade 12 Advanced Functions, and Grade 12 Calculus & Vectors. Applicants must also submit a Supplementary Application Form.

*Course Guidelines for Students Admitted to the Double Degree Program Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>, <u>MATA36H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and MGTA35H3.

2. Students already pursuing a BBA program and degree may apply to enter the Double Degree program. The application can be made before the end of the Winter semester and/or before the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request. Students considering switching to the Double Degree program should consult with the program supervisors as soon as possible.

The minimum Cumulative Grade Point Average (CGPA) for admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed at least 4.5 credits (none of which can be designated as CR/NCR), including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGTA35H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>, and <u>MATA36H3</u>. Students who have taken the sequence [<u>MATA32H3</u> and <u>MATA33H3</u>] instead of [<u>MATA30H3</u> and <u>MATA36H3</u>] can still apply to the Double Degree program if they are taking or plan to take <u>MATA36H3</u> at the time of application and could receive admission conditional on their grade in <u>MATA36H3</u> being above a threshold to be specified each year. Note that MATA36H3 will be treated as an Extra (EXT) course in this case.

Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be admitted to the Double Degree program. For those who apply with more than 4.5 credits, their CGPA at the time of application will be calculated with more weight assigned to the required courses listed under the 4.5 credits.

#### CGPA Requirement to Remain in the Double Degree (Specialist Programs)

In order to remain in the Double Degree, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 credits. Students whose CGPA falls below 2.1 (but not below 2.0) will have the opportunity to move to either the non Co-op BBA Specialist Program in Management and Finance, or the non Co-op BSc Specialist Program in Statistics, Quantitative Finance stream. If they choose to stay in the Double Degree program and their CGPA falls below 2.0, they will be removed from the Double Degree 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.

## **Program Requirements**

The Double Degree program requires the completion of 25.0 credits. 22.0 credits are core program requirements as listed below, and 3.0 further credits are required to complete degree requirements.

## 1. Communications requirement (0.5 credit)

MGTA35H3 Management Communications

#### 2. Management requirements (5.5 credits)

MGAB01H3 Introductory Financial Accounting I MGAB02H3 Introductory Financial Accounting II MGAB03H3 Introductory Management Accounting [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3 Human Resource Management MGHC02H3 Management Skills MGMA01H3 Principles of Marketing MGMB01H3 Marketing Management MGOC10H3 Analysis for Decision-Making MGOC20H3 Operations Management: A Mathematical Approach MGTA05H3 Foundations of Business Management or [(MGTA01H3) and (MGTA02H3)]

## 3. Science requirements (9.0 credits)

CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics MATA22H3 Linear Algebra I for Mathematical Sciences MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences 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 MATB61H3 Linear Programming and Optimization MATC46H3 Differential Equations II STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics STAC62H3 Stochastic Processes STAC67H3 Regression Analysis

<u>STAD37H3</u> Multivariate Analysis <u>STAD57H3</u> Time Series Analysis

#### 4. Economics requirements (2.0 credits)

<u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u> Price Theory: A Mathematical Approach <u>MGEB06H3</u> Macroeconomic Theory and Policy: A Mathematical Approach

## 5. Finance requirements (5.0 credits)

MGFB10H3<br/>MGFC10H3Principles of FinanceMGFC10H3<br/>[MGFC30H3Intermediate Finance[MGFC30H3<br/>MGFD10H3Introduction to Derivatives Markets or STAB41H3<br/>Financial Derivatives]MGFD10H3<br/>STAC70H3InvestmentsSTAC70H3<br/>Statistics and Finance ISTAD70H3<br/>Statistics and Finance II

## 6. At least four courses (2.0 credits) from:

MGEC71H3Money and BankingMGFC20H3Personal Financial ManagementMGFC50H3International Financial ManagementMGFC60H3Financial Statement Analysis & Security ValuationMGFD15H3Special Topics in Finance: Private EquityMGFD30H3Risk ManagementMGFD40H3Investor Psychology and Behavioural FinanceMGFD50H3Mergers and Acquisitions: Theory and PracticeMGFD60H3Financial Modeling and Trading StrategiesMGFD70H3Advanced Financial Management

**NOTE**: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree Requirements)</u> of the Calendar.

## DOUBLE DEGREE: BBA, SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND FINANCE / HONOURS BSc, SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS, QUANTITATIVE FINANCE STREAM

Academic Supervisors: S. Ahmed Email: <u>mgmtss@utsc.utoronto.ca</u> (BBA) S. Damouras Email: sdamouras@utsc.utoronto.ca (BSc)

Program Director: C. Arsenault E-mail: mgmtcoop@utsc.utoronto.ca

The Double Degree program combines the Specialist (Co-operative) Program in Management and Finance and the Specialist (Co-operative) Program in Statistics, Quantitative Finance stream. Students completing the Double Degree program will qualify to graduate with two degree designations – the Bachelor of Business Administration (BAA) and the Honours Bachelor of Science (BSc), assuming all other degree criteria are met.

The Double Degree program is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as finance, insurance, data analytics, accounting, consulting, business intelligence, marketing, policy, strategic planning and entrepreneurship. The Double Degree program will equip students with a comprehensive understanding of financial markets, and develop the business and quantitative skills required to function in them.

The Double Degree 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 five years, or until graduation requirements are met. It requires 11 four-month terms of study and 3 four-month work terms.

## **Enrolment Requirements**

Enrolment in the Double Degree program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English, Grade 12 Advanced Functions, and Grade 12 Calculus & Vectors. Applicants must also submit a Supplementary Application Form.

*Course Guidelines for Students Admitted to Double Degree Program Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGTA22H3</u>, <u>MATA30H3</u>, <u>MATA36H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students already pursuing a BBA program and degree may apply to enter this Double Degree program. The application can be made before the end of the Winter semester and/or before the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request. Students considering switching to the Double Degree program should consult with the program supervisors as soon as possible.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed at least 4.5 credits (none of which can be designated as CR/NCR), including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, MGAB01H3, MGAB02H3, MGTA35H3 or MGTA36H3, MATA22H3, <u>MATA30H3</u>, and <u>MATA36H3</u>. Students who have taken the sequence [<u>MATA32H3</u> and <u>MATA33H3</u>] instead of [<u>MATA30H3</u> and <u>MATA36H3</u>] can still apply to the Double Degree Program if they are taking or plan to take <u>MATA36H3</u> at the time of application and could receive admission conditional on their grade in <u>MATA36H3</u> being above a threshold to be specified each year. Note that MATA36H3 will be treated as an Extra (EXT) course in this case.

Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be able to apply to the Double Degree Program. For those who apply with more than 4.5 credits, their CGPA at the time of application will be calculated with more weight assigned to the required courses listed under the 4.5 credits.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Double Degree Co-op Program

Students must maintain a CGPA of 2.5 or higher. Students whose CGPA falls below 2.5 will be placed on probation. Students on probation will be reinstated to the Double Degree program 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 2.5. Students who cannot get out of probation in two consecutive sessions, or whose CGPA falls below 2.3, will be removed from the Double Degree Co-op Program. Students removed from the Double Degree (Specialist Co-op Programs) can pursue the Double Degree (Specialist Programs), or one of its non Co-op constituent programs (i.e., the BBA Specialist Program in Management and Finance, or the BSc Specialist Program in Statistics, Quantitative Finance stream).

## **Program Requirements**

The Double Degree program requires the completion of 25.0 credits. 22.0 credits are core program requirements as listed below, and 3.0 further credits are required to complete degree requirements.

## 1. Communications requirement (0.5 credit)

MGTA36H3 Management Communications for Co-op

#### 2. Management requirements (5.5 credits)

MGAB01H3 Introductory Financial Accounting I MGAB02H3 Introductory Financial Accounting II MGAB03H3 Introductory Management Accounting [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3 Human Resource Management MGHC02H3 Management Skills MGMA01H3 Principles of Marketing <u>MGMB01H3</u> Marketing Management <u>MGOC10H3</u> Analysis for Decision-Making <u>MGOC20H3</u> Operations Management: A Mathematical Approach <u>MGTA05H3</u> Foundations of Business Management or [(<u>MGTA01H3</u>) and (<u>MGTA02H3</u>)]

## 3. Science requirements (9.0 credits)

CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics MATA22H3 Linear Algebra I for Mathematical Sciences MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences 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 MATB61H3 Linear Programming and Optimization MATC46H3 Differential Equations II STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics STAC62H3 Stochastic Processes STAC67H3 Regression Analysis STAD37H3 Multivariate Analysis STAD57H3 Time Series Analysis

#### 4. Economics requirements (2.0 credits)

<u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u> Price Theory: A Mathematical Approach <u>MGEB06H3</u> Macroeconomic Theory and Policy: A Mathematical Approach

#### 5. Finance requirements (5.0 credits)

<u>MGFB10H3</u> Principles of Finance <u>MGFC10H3</u> Intermediate Finance [<u>MGFC30H3</u> Introduction to Derivatives Markets or <u>STAB41H3</u> Financial Derivatives] <u>MGFD10H3</u> Investments <u>STAC70H3</u> Statistics and Finance I <u>STAD70H3</u> Statistics and Finance II

## 6. At least four courses (2.0 credits) from:

MGEC71H3Money and BankingMGFC20H3Personal Financial ManagementMGFC50H3International Financial ManagementMGFC60H3Financial Statement Analysis & Security ValuationMGFD15H3Special Topics in Finance: Private EquityMGFD30H3Risk ManagementMGFD40H3Investor Psychology and Behavioural FinanceMGFD50H3Mergers and Acquisitions: Theory and PracticeMGFD60H3Financial Modeling and Trading StrategiesMGFD70H3Advanced Financial Management

**NOTE**: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree Requirements)</u> of the Calendar.

#### **Co-op Work Term Requirements**

All Double Degree program Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. Students are advised to consult regularly with the Academic Supervisors, or the Program Director, 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. Students who apply after first year and are successful in receiving a June offer will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGTA35H3</u> or <u>MGTA36H3</u>, <u>MATA22H3</u>, and <u>[MATA32H3</u>, and <u>MATA33H3</u>] or <u>[MATA30H3</u> and <u>MATA36H3</u>].

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this *Calendar*.

## **Economics for Management Studies**

#### **Faculty List**

- S. Ambuehl, B.Sc., M.A. (Zurich), Ph.D. (Stanford), Assistant Professor
- I. Au, B.A., M.A., Ph.D. (Simon Fraser), Associate Professor, Teaching Stream
- <u>M. Campolieti</u>, B.Sc., M.A., Ph.D. (Toronto), Professor
- L. Cavenaile, M.A. (Liège), M.Sc. (Maastricht), Ph.D. (New York), Assistant Professor
- A. Chandra, B.A. (India), M.A., Ph.D. (Illinois), Assistant Professor
- E. Dhuey, B.A. (Colorado), M.A., Ph.D. (California), Associate Professor
- <u>A.M. Franco</u>, B.A. (California), M.A., Ph.D. (Rochester), Associate Professor
- <u>G. Frazer</u>, B. Math. (Waterloo), B.Ed. (Western), M.A. (Toronto), M.Phil., Ph.D. (Yale), Associate Professor
- H. Krashinsky, B.A. (Queen's), M.A., Ph.D. (Princeton), Associate Professor
- M. Krashinsky, S.B. (M.I.T.), M.Phil., Ph.D. (Yale), Professor
- A. Mazaheri, B.A. (Imam Sadegh), M.A, Ph.D. (Toronto), Associate Professor, Teaching Stream
- J. Parkinson, Hon B.A. (Western), M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- P. Medina Quispe, B.A. (PUCP-Peru), M.A., Ph.D. (Duke), Assistant Professor

#### 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. The Specialist Program in Economics for Management Studies leads to a Bachelor of Business Administration (B.B.A.) and provides a specialization for students wishing for a substantial component of Economics in a Management degree. For full Program details, see the <u>Management</u> section of this Calendar.

2. The Specialist (Co-operative) Program in Economics for Management Studies leads to a Bachelor of Business Administration (B.B.A.) and provides a specialization for students wishing for a substantial component of Economics in a Management degree. This Program includes Co-op work terms. For Program details, see the <u>Management section of this Calendar</u>.

3. The Major Program in Economics for Management Studies. Enrolment in this program is limited. This Program is described below.

Note: Students may not combine a Major Program in Economics for Management Studies with any Specialist B.B.A. program offered by the Department of Management.

4. The Minor Program in Economics for Management Studies. Enrolment in this program in unlimited. However, students are cautioned that they will not have guaranteed admission to most of the B-level and C-level Economic courses, and will only be accommodated after the Specialist and Major Program students have been admitted. This Program is described below.

Note: Students may not combine a Minor Program in Economics for Management Studies with any Specialist B.B.A. program offered by the Department of Management.

#### **Courses in Economics for Management Studies**

Students who are enrolled in Specialist or a Major program in the Department of Management will 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.

Enrolment in MGEB02H3, MGEB06H3, MGEB11H3, MGEB12H3, MGEC02H3, MGEC06H3, MGEC11H3, MGED11H3, MGED02H3, and MGED06H3 will be strictly limited to students who either are (1) enrolled in Specialist or Major programs offered by the Department of Management, or (2) meet the academic merit criteria.

## Courses From Other Disciplines That May Be Counted Towards the Major and Minor Programs in Economics for Management Studies

The following courses may be counted as B-level credits in the Major Program in Economics for Management Studies and the Minor Program in Economics for Management Studies.

CITC18H3 Urban Transportation Policy Analysis - see the City Studies section of the Calendar

GGRC27H3 Location and Spatial Development - see the Geography section of the Calendar

<u>IDSB01H3</u> Political Economy of International Development - see the International Development Studies section of the Calendar

<u>IDSC12H3</u> Economics of Small Enterprise and Microcredit - see the International Development Studies section of the *Calendar* 

## Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the Calendar.

## **Economics For Management Studies Programs**

## 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.

## **Enrolment Requirements**

Enrolment in this Program is limited. Students must have completed a minimum of 4.0 credits, including <u>MGEA02H3</u>/ (<u>ECMA04H3</u>), <u>MGEA06H3</u>/(<u>ECMA06H3</u>), and [<u>MATA32H3</u> & <u>MATA33H3</u>] (or equivalents). Decisions are made by the Academic Director, on the basis of the Cumulative Grade Point Average (CGPA).

Students may apply until they have completed up to 10 .0 credits, and admission will be on the basis of all grades received. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Students are cautioned that the Mathematics requirement implies that Grade 12 Calculus is a requirement for entry into this program.

**Note**: Students who are enrolled in a B.B.A. program may not 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: <u>MGEA02H3/(ECMA04H3)</u> and <u>MGEA06H3/(ECMA06H3)</u> <u>MGEB02H3/(ECMB02H3)</u> and <u>MGEB06H3/(ECMB06H3)</u> <u>MGEC02H3/(ECMB11H3)</u> and <u>MGEB12H3/(ECMB12H3)</u> <u>MGEC02H3/(ECMC02H3)</u> and <u>MGEC06H3/(ECMC06H3)</u> <u>MGEC11H3/(ECMC11H3)</u> Plus 1.5 full credits chosen from the courses in Economics for Management Studies including at least one at the C-level (excluding <u>MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)</u>.

Students must also complete [<u>MATA32H3</u> & <u>MATA33H3</u>] or [<u>MATA30H3</u>/A31H3 & <u>MATA35H3</u>/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 <u>MGEA01H3</u>/(<u>ECMA01H3</u>) and <u>MGEA05H3</u>/(<u>ECMA05H3</u>) and then decide to apply for this program will be permitted to substitute <u>MGEA01H3</u>/(<u>ECMA01H3</u>) and <u>MGEA05H3</u>/(<u>ECMA05H3</u>) for [<u>MGEA02H3</u>/(<u>ECMA04H3</u>) & <u>MGEA06H3</u>/(<u>ECMA06H3</u>)]. However, these students will be required to complete [<u>MATA32H3</u> & <u>MATA33H3</u>] or [<u>MATA30H3</u>/A31H3 & <u>MATA35H3</u>/A36H3/A37H3], before registering in <u>MGEB02H3</u>/(<u>ECMB02H3</u>), <u>MGEB06H3</u>/(<u>ECMB06H3</u>), <u>MGEB11H3</u>/(<u>ECMB11H3</u>) and <u>MGEB12H3</u>/(<u>ECMB12H3</u>).

#### 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.

<u>STAB52H3</u> <u>STAB57H3</u> <u>MGEB12H3</u>/(<u>ECMB12H3</u>) <u>MGEC11H3</u>/(<u>ECMC11H3</u>)\* <u>STAC67H3</u>

\* <u>MGEC11H3</u>/(<u>ECMC11H3</u>) may be taken concurrently with <u>STAC67H3</u>. However, if <u>MGEC11H3</u>/(<u>ECMC11H3</u>) is taken after <u>STAC67H3</u>, 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 combine the 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.

Enrolment in this Program is unlimited and does not require training in Calculus. However, students are cautioned that they are not guaranteed admission to most of the B-level, C-level, and D-level courses. Students in the Minor will be

accommodated only after students in the Specialist and Major programs 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 in the Minor Program must choose their courses carefully to ensure that they have the necessary prerequisites.

**Note:** Students who are enrolled in a B.B.A. program may not 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:

<u>MGEA01H3/(ECMA01H3)</u> or <u>MGEA02H3/(ECMA04H3)</u> <u>MGEA05H3/(ECMA05H3)</u> or <u>MGEA06H3/(ECMA06H3)</u> <u>MGEB01H3/(ECMB01H3)</u> or <u>MGEB02H3/(ECMB02H3)</u> <u>MGEB05H3/(ECMB05H3)</u> or <u>MGEB06H3/(ECMB06H3)</u> 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, (<u>MGEC91H3</u>/(<u>ECMC91H3</u>), <u>MGEC92H3</u>/(<u>ECMC92H3</u>) & <u>MGEC93H3</u>/(<u>ECMC93H3</u>) are available to students in the minor program at the beginning of the registration period.

**Note**: Students may if they wish, count <u>STAB22H3</u>, <u>ANTC35H3</u>, <u>PSYB07H3</u> or (<u>SOCB06H3</u>) 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, ECO101H Breadth Requirements: 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.

Exclusion: MGEA01H3/(ECMA01H3), (ECMA04H3), ECO100Y, ECO105Y, ECO101H Recommended Preparation: Completion of Grade 12 Calculus is strongly recommended. It is also recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3). Breadth Requirements: 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, ECO102H Breadth Requirements: 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.

Exclusion: MGEA05H3/( ECMA05H3), ( ECMA06H3), ECO100Y, ECO105Y, ECO102H1 Recommended Preparation: Completion of Grade 12 Calculus is strongly recommended. It is also recommended that MATA32H3 and MATA33H3 (or equivalents) be taken simultaneously with MGEA02H3/( ECMA04H3) and MGEA06H3/( ECMA06H3) Breadth Requirements: Social & Behavioural Sciences

## MGEB01H3 - 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: MGEB02H3/(ECMB02H3), (ECMB01H3), ECO200Y, ECO204Y, ECO206Y Enrolment Limits: 120 per section Breadth Requirements: Social & Behavioural Sciences

## MGEB02H3 - Price Theory: A Mathematical Approach

Intermediate level development of the principles of microeconomic theory. The course will cover the same topics as MGEB01H3/(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 [ MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [ MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3]. Students who have completed MGEA01H3/( ECMA01H3)and MGEA05H3/( ECMA05H3)and [ MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [ MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] may be admitted with the permission of the Academic Director, Economics. Exclusion: MGEB01H3/( ECMB01H3), ( ECMB02H3), ECO200Y, ECO204Y, ECO206Y Enrolment Limits: 80 per section Breadth Requirements: Social & Behavioural Sciences

## MGEB05H3 - 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 for the B.B.A.

Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] Exclusion: MGEB06H3/(ECMB06H3), (ECMB05H3), ECO202Y, ECO208Y, ECO209Y Enrolment Limits: 120 per section Breadth Requirements: Social & Behavioural Sciences

## MGEB06H3 - Macroeconomic Theory and Policy: A Mathematical Approach

Intermediate level development of the principles of macroeconomic theory. The course will cover the same topics as MGEB05H3/(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 [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3]. Students who have completed MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] may be admitted with the permission of the Academic Director, Economics. Exclusion: MGEB05H3/(ECMB05H3), (ECMB06H3), ECO202Y, ECO208Y, ECO209Y Enrolment Limits: 80 per section

Breadth Requirements: Social & Behavioural Sciences

## MGEB11H3 - 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 [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H31: Students who have completed MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3) and [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H31 and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] may be admitted with the permission of the Academic Director. Economics. Exclusion: ANTC35H3, (ECMB11H3), ECO220Y, ECO227Y, PSYB07H3, (SOCB06H3), STAB22H3, STAB23H3, STAB52H3, STAB57H3 Enrolment Limits: 120 per section Breadth Requirements: Quantitative Reasoning

## MGEB12H3 - 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: [MGEB11H3/(ECMB11H3) or [STAB52H3 and STAB57H3]] and [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] Exclusion: (ECMB12H3), ECO220Y, ECO227Y, STAB27H3, STAC67H3 Enrolment Limits: 80 per section Breadth Requirements: Quantitative Reasoning Note: STAB27H3 is not equivalent to MGEB12H3/(ECMB12H3).
### MGEB31H3 - 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 Requirements: Social & Behavioural Sciences

### MGEB32H3 - Economic Aspects of Public Policy

Cost-Benefit Analysis (CBA) is a key policy-evaluation tool developed by economists to assess government policy alternatives and provide advice to governments. In this course, we learn the key assumption behind and techniques used by CBA and how to apply these methods in practice.

Prerequisite: [MGEA02H3/(ECMA04H3) and MGEA06H3/(ECMA06H3)] or [MGEA01H3/(ECMA01H3) and MGEA05H3/(ECMA05H3)] Corequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) Exclusion: (ECMB36H3) Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## MGEB60H3 - Comparative Economic 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: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) Exclusion: (ECMB68H3) Breadth Requirements: Social & Behavioural Sciences

### 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 [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] Exclusion: (ECMC02H3), MGEC92H3/(ECMC92H3), ECO200Y, ECO204Y, ECO206Y Enrolment Limits: 60 Breadth Requirements: 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 [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] Exclusion: (ECMC06H3), ECO202Y, ECO208Y, ECO209Y Enrolment Limits: 60 Breadth Requirements: 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 results. Students will be required to write a major analytical report. Enrolment is limited to students registered in programs requiring this course.

Prerequisite: MGEB11H3/(ECMB11H3) and MGEB12H3/(ECMB12H3) Exclusion: ECO374H, ECM375H, (ECMB13H3), (ECMC11H3), STA302H, (ECO327Y); MGEC11H3/(ECMC11H3) may not be taken after STAC67H3. Enrolment Limits: 40 Breadth Requirements: 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 researchoriented, involving empirical assignments and a research essay.

Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) Exclusion: (ECMC20H3) Enrolment Limits: 60 Breadth Requirements: 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), ECO429H, ECO428H Enrolment Limits: 60 per section Breadth Requirements: Social & Behavioural Sciences

### **MGEC22H3 - Behavioural Economics**

Intermediate level development of the principles of behavioural economics. Behavioural economics aims to improve policy and economic models by incorporating psychology and cognitive science into economics. The course will rely heavily on the principles of microeconomic analysis.

#### Prerequisite: MGEB02H3

**Recommended Preparation:** Grade B or higher in MGEB02H3. MGEC02H3 and the basics of game theory would be helpful.

#### Enrolment Limits: 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students who have completed MGEC02H3.

# 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), ECO336H, ECO337H Enrolment Limits: 60 Breadth Requirements: 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), ECO336H, ECO337H Enrolment Limits: 60 Breadth Requirements: 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: MGEB02H3/(ECMB02H3) Exclusion: (ECMC34H3), ECO369H, (ECO369Y) Enrolment Limits: 60 Breadth Requirements: 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 Requirements: 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, decisionmaking mechanisms, implementation procedures, policy rationales, and related issues.

Prerequisite: [MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)] and [MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)] Exclusion: (ECMC38H3), ECO336Y Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

### 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), ECO310H, ECO370Y, ECO380H Enrolment Limits: 60 Breadth Requirements: 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), MGEC92H3/(ECMC92H3), (ECO310Y), ECO310H Enrolment Limits: 60 Breadth Requirements: 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), ECO339H, (ECO361Y) Enrolment Limits: 60 Breadth Requirements: 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), ECO340H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

# MGEC54H3 - Economics of Training and Education

This course studies the economic aspects of how individuals and firms make decisions: about education and on-the-job training. Economics and the business world consider education and training as investments. In this class, students will learn how to model these investments, and how to create good policies to encourage individuals and firms to make wise investment decisions.

Prerequisite: MGEB02H3/(ECMB02H3) Exclusion: (ECMC54H3), (ECO412Y), ECO338H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

### 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), ECO381H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## MGEC61H3 - International Economics: Finance

Macroeconomic theories of the balance of payments and the exchange rate in a small open economy. Recent theories of exchange-rate determination in a world of floating exchange rates. 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: (ECMC61H3), ECO230Y, (ECO328Y), ECO365H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

### MGEC62H3 - 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: ( ECMC62H3), MGEC93H3/( ECMC93H3), ECO230Y, (ECO328Y), ECO364H Enrolment Limits: 60 Breadth Requirements: 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), ECO349H Enrolment Limits: 60 per section Breadth Requirements: 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 Requirements: Social & Behavioural Sciences

## MGEC80H3 - 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: (ECMC80H3), (ECO321Y), ECO321H, ECO322H Enrolment Limits: 60 per section Breadth Requirements: 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), (ECO324Y), ECO324H1 Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

### MGEC82H3 - International Aspects of Development Policy

This course will use the tools of economics to understand international aspects of economic development policy. Development policy will focus on understanding the engagement of developing countries in the global economy, including the benefits and challenges of that engagement. Topics to be discussed will include globalization and inequality, foreign aid, multinational corporations, foreign direct investment, productivity, regional economic integration, and the environment.

Prerequisite: MGEB01H3 or MGEB02H3 Exclusion: (ECMC67H3), (ECO324Y), ECO362H Enrolment Limits: 60 Breadth Requirements: 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 a B.B.A. or of the Major Program in Economics for Management Studies.

Prerequisite: MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3) Exclusion: MGEC31H3/(ECMC31H3), MGEC32H3/(ECMC32H3), (ECMC91H3), (ECO336Y), ECO336H, ECO337H Breadth Requirements: 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 a 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), ECO200Y, ECO204Y, ECO206Y, (ECO310Y), ECO310H Breadth Requirements: 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), (ECO230Y), (ECO328Y), ECO364H, ECO365H Breadth Requirements: 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: ECO326H, (ECMC13H3), (ECMD13H3) Enrolment Limits: 35 Breadth Requirements: 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: ECO325H, (ECMC14H3), (ECMD14H3) Enrolment Limits: 35 Breadth Requirements: 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 computerbased 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: (ECO327Y), STA302H, (ECMC12H3), (ECMD10H3), ECO475H Enrolment Limits: 30 Breadth Requirements: Quantitative Reasoning

## MGED43H3 - Organization Strategies

Explores the issue of outsourcing, and broadly defines which activities should a firm do "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 Requirements: 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 MGEC02H3/(ECMC02H3) and MGEB06H3/(ECMB06H3) and MGEC06H3/(ECMB06H3) and MGEB11H3/(ECMB11H3) and MGEB12H3/(ECMB12H3) and MGEC11H3/(ECMC11H3). This course should be taken among the last 5 credits of a twenty-credit degree. Corequisite: MGED11H3/(ECMD10H3) Exclusion: (ECMD50H3), ECO499H Enrolment Limits: 8 Breadth Requirements: Social & Behavioural Sciences

### 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: MGEC61H3/( ECMC61H3) Exclusion: ( MGEC63H3)/( ECMC63H3) Enrolment Limits: 30 Breadth Requirements: 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: MGEC11H3/(ECMC11H3) and [MGEC72H3/(ECMC49H3) or MGFC10H3/(MGTC09H3)] Exclusion: (ECMD70H3), ECO462H Enrolment Limits: 30 Breadth Requirements: 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)

English

## English

#### Faculty List

- M. Assif, B.A. (Hassan II), M.A., Ph.D. (Case Western Reserve), Associate Professor, Teaching Stream
- <u>C. Bolus-Reichert</u>, 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
- <u>A. Milne</u>, M.A., Ph.D. (McMaster), Lecturer
- S. Nikkila, B.A. (Harvard), Ph.D. (Edinburgh), Lecturer
- M. Rubright, A.B. (Vassar), M.A. (Missouri-Columbia), Ph.D. (Michigan), Associate Professor
- <u>Y. Ryzhik</u>, Ph.D. (Harvard), Assistant Professor (CLTA)
- 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), Ph.D. (Victoria), Assistant Professor
- L. Wey, M.A., Ph.D. (Harvard), Lecturer
- A. Westoll, B.Sc. (Queens), M.F.A. (UBC), Assistant Professor, Teaching Stream

Chair: K. Larson (as of July 1, 2017)

The discipline of English at UTSC explores the rich variety of texts produced in the English-speaking world across historical periods and geographical boundaries. Encompassing creative writing, film studies, and literature, our curriculum encourages students to think and write critically about the development of particular genres, the relationship between literary works and other art forms, and the production and dissemination of texts in different historical and cultural contexts. The English Programs at UTSC give students the tools to engage with new ways of thinking, speaking, and writing about the world around them and, in so doing, to interact with and to change that world through critical language and argument.

A-level courses introduce students to the study of English at the University level.

B-level courses have no prerequisites and are available both to beginning and to more advanced students. C-level courses are designed to build upon previous work. While they are open to all upper-level students, they presuppose some background in critical skills.

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 focus on seminar discussion.

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 include <u>ENGC15H3</u> within their program (it is required for the English Specialist) and to consider enrolling in <u>ENGD98Y3</u>, an intensive capstone seminar that provides qualified students with the opportunity to develop a senior essay project under the supervision of a faculty member in English. The Program Supervisor is available by appointment to advise students selecting courses with graduate study in mind.

#### Guidelines for first year course selection

ENGA01H3 and ENGA02H3 introduce students to the study of literature at the university level and are part of the core requirements for the English Specialist, Major, and Minor as well as the Creative Writing Minor. ENGA10H3 and/or

<u>ENGA11H3</u> provide another valuable entry point to introductory work in literary studies. First-year students who are considering the Minor in Literature and Film Studies should enroll in <u>ENGA10H3</u> and/or <u>ENGA11H3</u>, which are part of the core requirements for this program. All of these courses are also open to students with general interest in English. First-year students intending to pursue an English program are welcome to begin taking B-level classes alongside their introductory requirements.

The minor programs in both Creative Writing and Film and Literature Studies are considered 'niche' programs and can be paired alongside a Major in English if desired as there are enough exclusive credits between program requirements.

#### **English Courses**

The following categories offer a broad orientation to English as a discipline and suggest some of our department's core areas of strength. They can be a guide for selecting related courses as students move through the program. They also highlight some of the possible routes and threads students can follow as they develop particular areas of interest.

Students should keep in mind that these categories are not mutually exclusive and that an important aspect of studying English literature involves thinking critically about the construction of historical and thematic boundaries. Students are also encouraged to develop thematic routes and threads through the program that reflect their individual areas of interest. Faculty members are available for individual consultation to discuss possibilities.

#### **Medieval Literature**

ENGB27H3 Charting Literary History I ENGB31H3 The Romance: In Quest of the Marvelous ENGB39H3 Tolkien's Middle Ages ENGC29H3 Chaucer ENGC30H3 Studies in Medieval Literature ENGC40H3 Medieval Life Writing ENGD29H3 Chaucer's Early Works ENGD30H3 Topics in Medieval Literature

#### Early Modern (Renaissance) Literature

ENGB27H3 Charting Literary History I ENGB32H3 Shakespeare in Context I ENGB33H3 Shakespeare in Context II ENGC10H3 Studies in Shakespeare ENGC33H3 Deceit, Dissent, and the English Civil Wars, 1603-1660 ENGC34H3 Early Modern Women and Literature, 1500-1700 ENGC35H3 Imagined Communities in Early Modern England, 1500-1700 ENGD14H3 Topics in Early Modern Literature and Culture ENGD19H3 Theoretical Approaches to Early Modern Literature and Culture

#### Long 18th-Century British Literature

ENGB28H3 Charting Literary History II ENGC36H3 Literature and Culture, 1660-1750 ENGC37H3 Literature and Culture, 1750-1830 ENGC38H3 Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1750 ENGC39H3 The Early Novel in Context, 1740-1830 ENGC69H3 Gothic Literature ENGD18H3 Topics in the Long Eighteenth Century, 1660-1830

#### Long 19th-Century British Literature (Includes Romantic and Victorian)

ENGB28H3 Charting Literary History II ENGC21H3 The Victorian Novel ENGC22H3 Victorian Popular Fiction ENGC25H3 Victorian Poetry and Prose ENGC42H3 Romanticism ENGC43H3 Nineteenth-Century Literature and Contemporary Culture ENGC69H3 Gothic Literature ENGD43H3 Topics in Romanticism, 1750-1850 ENGD48H3 Studies in Major Victorian Writers ENGD89H3 Topics in the Victorian Period

#### Modernism, Modernity, and Postmodernity

ENGA10H3 Literature and Film for our Time: Visions and Revisions ENGA11H3 Literature and Film for our Time: Dawn of the Digital ENGB14H3 Twentieth-Century Drama ENGB28H3 Charting Literary History II ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II ENGC47H3 Modernist Poetry ENGC80H3 Modernist Narrative ENGD07H3 Studies in Postmodern Poetry ENGD13H3 Rap Poetics ENGD42H3 Studies in Major Modernist Writers ENGD91H3 Avant-Garde Cinema

#### **Canadian Literature**

ENGB06H3 Canadian Literature to 1900 ENGB07H3 Canadian Literature 1900 to Present ENGB25H3 The Canadian Short Story ENGC01H3 Indigenous Literature of Turtle Island (Canada) ENGC02H3 Major Canadian Authors ENGC03H3 Topics in Canadian Fiction ENGC07H3 Canadian Drama ENGC09H3 Canadian Poetry ENGC70H3 The Immigrant Experience in Literature to 1980 ENGC71H3 The Immigrant Experience in Literature since 1980 ENGD57H3 Studies in Major Canadian Writers ENGD58H3 Topics in Canadian Literature ENGD80H3 Women and Canadian Writing ENGD84H3 Canadian Writing for the New Century

#### **American Literature**

ENGB08H3 American Literature to 1860 ENGB09H3 American Literature from the Civil War to the Present ENGC12H3 Individualism and Community in American Literature ENGC13H3 Ethnic Traditions in American Literature ENGC50H3 Studies in Contemporary American Fiction ENGC70H3 The Immigrant Experience in Literature to 1980 ENGC71H3 The Immigrant Experience in Literature since 1980 ENGC91H3 American Realisms ENGD59H3 Topics in American Poetry ENGD60H3 Topics in American Prose

#### Postcolonial, Diasporic, and World Literatures

ENGB17H3 Contemporary Literature from the Caribbean ENGB19H3 Contemporary Literature from South Asia ENGB22H3 Contemporary Literature from Africa ENGC51H3 Contemporary Arab Women Writers ENGC59H3 Geography and Regionalism in Literature ENGC70H3 The Immigrant Experience in Literature to 1980 ENGC71H3 The Immigrant Experience in Literature since 1980 ENGC83H3 World Cinema ENGC84H3 Cinema and Migration ENGD08H3 Topics in African Literature ENGD62H3 Topics in Postcolonial Literature and Film ENGD71H3 Studies in Arab North American Literature ENGD96H3 Iranian Cinema

### Form and Genre

ENGA01H3 What is Literature? ENGB04H3 How to Read a Poem ENGB12H3 Life Writing ENGB14H3 Twentieth-Century Drama ENGB30H3 Classical Myth and Literature ENGB31H3 The Romance: In Quest of the Marvelous ENGB34H3 The Short Story ENGB35H3 Children's Literature ENGB70H3 How to Read a Film ENGC23H3 Fantasy and the Fantastic in Literature and the Other Arts ENGC24H3 Creative Writing: The Art of the Personal Essay ENGC26H3 Drama: Tragedy ENGC27H3 Drama: Comedy ENGC38H3 Novel Genres: Fiction, Journalism, News, and Autobiography, 1640-1750 ENGC48H3 Satire ENGC47H3 Modernist Poetry ENGC54H3 Gender and Genre ENGC69H3 Gothic Literature ENGC78H3 Dystopian Visions in Fiction and Film ENGC80H3 Modernist Narrative ENGC90H3 Topics in Classical Myth and Literature ENGD07H3 Studies in Postmodern Poetry ENGD12H3 Topics in Life Writing **ENGD13H3 Rap Poetics** ENGD94H3 Stranger Than Fiction: The Documentary Film

#### **Aspects of Theory**

ENGB50H3 Women and Literature: Forging a Tradition ENGC15H3 Introduction to Literary Theory and Criticism ENGC54H3 Gender and Genre ENGC59H3 Geography and Regionalism in Literature ENGC76H3 The Body in Literature and Film ENGC82H3 Topics in Cinema Studies ENGD03H3 Topics in Contemporary Literary Theory ENGD19H3 Theoretical Approaches to Early Modern Literature and Culture ENGD55H3 Literature, Politics, Revolution ENGD93H3 Theoretical Approaches to Cinema ENGD93H3 Senior Essay and Capstone Seminar

#### Literature, Culture, and the Other Arts

ENGA10H3 Literature and Film for our Time: Visions and Revisions ENGA11H3 Literature and Film for our Time: Dawn of the Digital ENGB37H3 Popular Literature and Mass Culture ENGB38H3 The Graphic Novel ENGB50H3 Literature and Science ENGC04H3 Creative Writing: Screenwriting ENGC05H3 Creative Writing: Poetry and New Media ENGC06H3 Creative Writing: Writing for Comics ENGC11H3 Poetry and Popular Culture ENGC23H3 Fantasy and the Fantastic in Literature and the Other Arts ENGC43H3 Nineteenth-Century Literature and Contemporary Culture ENGC54H3 Gender and Genre ENGC56H3 Literature and Media: From Page to Screen ENGC76H3 The Body in Literature and Film ENGC78H3 Dystopian Visions in Fiction and Film ENGC79H3 Above and Beyond: Superheroes in Film and Fiction ENGC89H3 Creative Writing and Performance ENGD13H3 Rap Poetics ENGD50H3 Fake Friends and Artificial Intelligence: The Human-Robot Relationship in Literature and Culture ENGD54H3 Comparative Approaches to Literature and Culture ENGD68H3 Topics in Literature and Religion

#### **Creative Writing**

ENGB60H3 Creative Writing: Poetry I ENGB61H3 Creative Writing: Fiction I ENGB63H3 Creative Writing: Creative Nonfiction I ENGC04H3 Creative Writing: Screenwriting ENGC05H3 Creative Writing: Poetry and New Media ENGC06H3 Creative Writing: Writing for Comics ENGC08H3 Special Topics in Creative Writing I ENGC24H3 Creative Writing: The Art of the Personal Essay ENGC86H3 Creative Writing: Poetry II ENGC87H3 Creative Writing: Fiction II ENGC88H3 Creative Writing: Creative Nonfiction II ENGC28H3 Special Topics in Creative Writing II ENGC88H3 Creative Writing: Creative Writing II ENGD22H3 Special Topics in Creative Writing II ENGD26Y3 Independent Studies in Creative Writing: Poetry ENGD27Y3 Independent Studies in Creative Writing: Prose ENGD28Y3 Independent Studies in Creative Writing: Special Topics

#### Literature and Film Studies

ENGB70H3 How to Read a Film ENGB74H3 The Body in Literature and Film ENGB75H3 Cinema and Modernity I ENGB76H3 Cinema and Modernity II ENGC56H3 Literature and Media: From Page to Screen ENGC78H3 Dystopian Visions in Fiction and Film ENGC82H3 Topics in Cinema Studies ENGC83H3 World Cinema ENGC84H3 Cinema and Migration 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

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **English Programs**

### SPECIALIST PROGRAM IN ENGLISH (ARTS)

Program Supervisor: N. Dolan (416-287-7174). Email: english-program-supervisor@utsc.utoronto.ca

#### **Program Requirements**

12.0 credits in English are required of which at least 3.0 credits must be at the C-level and 1.5 credits at the D-level. They should be selected as follows:

#### 1. All of the following:

ENGA01H3 What is Literature? ENGA02H3 Critical Writing About Literature ENGB27H3 Charting Literary History I ENGB28H3 Charting Literary History II ENGC15H3 Introduction to Literary Theory and Criticism

#### 2. 1.5 additional credits from courses whose content is pre-1900

#### 3. 0.5 credit in Canadian Litearture

#### 4. 7.5 additional credits in English

**Note:** Students may count no more than one of the following courses towards the Specialist requirements: <u>ENGB35H3</u> Children's Literature (<u>ENGB36H3</u>) Detective Fiction (<u>ENGB41H3</u>) Science Fiction

Students may count no more than 1.0 credit of D-level independent study [<u>ENGD26Y3</u>, <u>ENGD27Y3</u>, <u>ENGD28Y3</u>, (<u>ENGD97H3</u>), (<u>ENGD99H3</u>)] towards an English program. The following courses do not count towards any English programs: ENG100H, ENG185Y.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN ENGLISH (ARTS)

Program Supervisor: N. Dolan (416-287-7174) Email: <a href="mailto:english-program-supervisor@utsc.utoronto.ca">english-program-supervisor@utsc.utoronto.ca</a> Co-op Contact: <a href="mailto:askcoop@utsc.utoronto.ca">askcoop@utsc.utoronto.ca</a>

The Specialist (Co-op) Program in English is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in a academic field related to English upon graduation.

In addition to their academic course requirements, student must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office. (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in English.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in English and have completed at least 9.0 credits, including ENGA01H3 and ENGA02H3.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are

recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

1. COPD01H3 – Foundations for Success in Arts & Science Co-op

- Students entering a Co-op degree from outside of UTSC (high school or other postsecondary) will complete this course in the Winter session of their first year at UTSC.

- Current UTSC students entering a Co-op degree in April/May will complete this course in the subsequent Summer session.

- Current UTSC students entering a Co-op degree in July/August will complete this course in the subsequent Fall session.

2. <u>COPD03H3</u>– Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first scheduled work term

- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter, and Summer sessions and must complete as least one of their work terms in either a Fall or Winter session. This in turn requires that students take courses during a least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see section 6B.5 (Co-operative Programs) in the UTSC *Calendar*.

### **MAJOR PROGRAM IN ENGLISH (ARTS)**

Program Supervisor: N. Dolan (416-287-7174). Email: english-program-supervisor@utsc.utoronto.ca

#### **Program Requirements**

7.5 credits in English are required They should be selected as follows:

#### 1. All of the following:

ENGA01H3 What Is Literature? ENGA02H3 Critical Writing about Literature ENGB27H3 Charting Literary History I ENGB28H3 Charting Literary History II

#### 2. 1.0 additional credit from courses whose content is pre-1900

#### 3. at least 0.5 credit at the D-level in ENG courses

#### 4. 4.0 additonal credits in ENG courses of which 2.0 credits must be at the C- or D- level

Notes:

1. Students may count no more than one of the following courses towards the Major requirements: <u>ENGB35H3</u> Children's Literature, <u>ENGB36H3</u> Detective Fiction, <u>ENGB41H3</u> Science Fiction.

2. Students may count no more than one 1.0 credit of D-level independent study [<u>ENGD26Y3</u>, <u>ENGD27Y3</u>, <u>ENGD28Y3</u>, (<u>ENGD99H3</u>)] towards an English program.

3. The following courses do not count towards any English programs: ENG100H, ENG185Y.

## MAJOR (CO-OPERATIVE) PROGRAM IN ENGLISH (ARTS)

Program Supervisor: N. Dolan (416-287-7174) Email: <u>english-program-supervisor@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Major (Co-op) Program in English is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in a academic field related to English upon graduation.

In addition to their academic course requirements, student must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Completion Requirements**

Students must complete the program requirements as described in the Major Program in English.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in English and have completed at least 9.0 credits, including <u>ENGA01H3</u> and <u>ENGA02H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering a Co-op degree from outside of UTSC (high school or other postsecondary) will complete this course in the Winter session of their first year at UTSC.

- Current UTSC students entering a Co-op degree in April/May will complete this course in the subsequent Summer session.

- Current UTSC students entering a Co-op degree in July/August will complete this course in the subsequent Fall session.

#### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>

- This course will be completed eight months in advance of the first scheduled work term

- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op Work Term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter, and Summer sessions and must complete as least one of their work terms in either a Fall or Winter session. This in turn requires that students take courses during a least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see section 6B.5 (Co-operative Programs) in the UTSC *Calendar*.

### **MINOR PROGRAM IN CREATIVE WRITING (ARTS)**

Program Advisor: 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. 1.0 credits as follows:

ENGA01H3 What is Literature? [ENGB60H3 Creative Writing: Poetry I or ENGB61H3 Creative Writing: Fiction I]

#### 2. 3.0 credits to be selected from the following:

ENGB60H3 Creative Writing: Poetry I (if not already counted as a required course) ENGB61H3 Creative Writing: Fiction I (if not already counted as a required course) ENGB63H3 Creative Writing: Creative Nonfiction I ENGC04H3 Creative Writing: Screenwriting ENGC05H3 Creative Writing: Poetry and New Media ENGC06H3 Creative Writing: Writing for Comics ENGC24H3 Creative Writing: The Art of the Personal Essay ENGC08H3 Special Topics in Creative Writing I ENGC86H3 Creative Writing: Poetry II ENGC87H3 Creative Writing: Fiction II ENGC88H3 Creative Writing: Creative Nonfiction II ENGC89H3 Creative Writing and Performance ENGD22H3 Special Topics in Creative Writing II ENGD26Y3 Independent Studies in Creative Writing: Poetry ENGD27Y3 Independent Studies in Creative Writing: Prose ENGD28Y3 Independent Studies in Creative Writing: Special Topics ENGD95H3 Creative Writing as a Profession

### MINOR PROGRAM IN ENGLISH LITERATURE (ARTS)

Program Supervisor: N. Dolan (416-287-7174). Email: english-program-supervisor@utsc.utoronto.ca

#### **Program Requirements**

4.0 credits in English are required. They should be selected as follows:

### 1. All of the following:

ENGA01H3 What is Literature? ENGA02H3 Critical Writing About Literature

#### 2. 3.0 additional credits in ENG courses, of which at least 1.0 credit must be at the C- level or D- level

Students may count no more than 1.0 credit of D-level independent study [ <u>ENGD26Y3</u>, <u>ENGD27Y3</u>, <u>ENGD28Y3</u>, ( <u>ENGD99H3</u>)] towards an English program.

The following courses do not count towards any English programs: ENG100H, ENG185Y.

## MINOR PROGRAM IN LITERATURE AND FILM STUDIES (ARTS)

Program Advisor: G. Leonard (416-287-7141) Email: english-program-supervisor@utsc.utoronto.ca

### Program Requirements

4.0 credits in English are required, of which 1.0 must be at the C- or D- level.

#### 1. 1.0 credit as follows:

ENGB70H3 How to Read a Film [ENGB75H3 Cinema and Modernity I]

#### 2. 0.5 credit as follows:

[<u>ENGA10H3</u> Literature and Film for our Time: Visions and Revisions or <u>ENGA11H3</u> Literature and Film for our Time: Dawn of the Digital]

### 3. 1.0 credit from the following:

ENGB74H3 The Body in Literature in Film ENGC44H3 Self and Other in Literature and Film ENGC56H3 Literature and Media: From Page to Screen ENGC78H3 Dystopian Visions in Fiction and Film ENGC82H3 Topics in Cinema Studies ENGC83H3 World Cinema ENGC84H3 Cinema and Migration 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. 1.5 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.

## ENGA01H3 - What Is Literature?

This course introduces the fundamentals of studying English at the university level, and builds the skills needed to successfully navigate English degree programs as well as a liberal arts education more broadly. Students will learn how to read texts closely and think critically; they will practice presenting their ideas in a clear, supported way; they will be exposed to a variety of texts in different forms and genres; and they will gain a working familiarity with indiscipline terminology and methodologies. Moreover, the course is an opportunity to explore the power exercised by literature on all levels of society, from the individual and personal to the political and global.

Exclusion: ENG110Y Breadth Requirements: Arts, Literature & Language

# ENGA02H3 - 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 researchbased paper. This is not a grammar course; students are expected to enter with solid English literacy skills.

Exclusion: (ENGB01H3), (ENGB05H3) Enrolment Limits: 25 per section Breadth Requirements: Arts, Literature & Language

# ENGA10H3 - Literature and Film for Our Time: Visions and Revisions

An exploration of how literature and film reflect the artistic and cultural concerns that shaped the twentieth century.

Exclusion: ENG140Y Breadth Requirements: Arts, Literature & Language

# ENGA11H3 - Literature and Film for Our Time: Dawn of the Digital

Building on ENGA10H3, this course considers how literature and film responds to the artistic, cultural, and technological changes of the late twentieth and twenty-first centuries.

Exclusion: ENG140Y Breadth Requirements: 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

**Breadth Requirements:** Arts, Literature & Language **Note:** Priority will be given to students enrolled in science programs. Additional students will be admitted as space permits.

### ENGB04H3 - How to Read a Poem

An introduction to the understanding of poetry in English. By close reading of a wide range of poems from a variety of traditions, students will learn how poets use the resources of patterned language to communicate with readers in uniquely rich and powerful ways.

Exclusion: ENG201Y Breadth Requirements: Arts, Literature & Language

# ENGB06H3 - Canadian Literature to 1900

A study of Canadian literature from pre-contact to 1900. This course explores the literatures of the "contact zone", from Indigenous oral and orature, to European journals of exploration and discovery, to the works of pioneer settlers, to the writing of the post-Confederation period. Pre-1900 course

Exclusion: ENG252Y Breadth Requirements: Arts, Literature & Language

# ENGB07H3 - Canadian Literature 1900 to Present

A continuation of ENGB06H3 introducing students to texts written from 1900 to the present. 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 reimaginings of the nation and national belonging.

**Exclusion:** ENG252Y **Breadth Requirements:** 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 Requirements: 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 Requirements: 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, lifewriting and history, the contract between writer and reader, and gender and life-writing.

Exclusion: ENG232H Breadth Requirements: Arts, Literature & Language

### ENGB14H3 - Twentieth-Century Drama

A study of major plays and playwrights of the twentieth century. This international survey might include turn-ofthe-century works by Wilde or Shaw; mid-century drama by Beckett, O'Neill, Albee, or Miller; and later twentiethcentury plays by Harold Pinter, Tom Stoppard, Caryl Churchill, Peter Shaffer, August Wilson, Tomson Highway, David Hwang, or Athol Fugard.

Exclusion: ENG340H, ENG341H, (ENG342H), (ENGB11H3), (ENGB13H3), (ENG338Y), (ENG339H) Breadth Requirements: Arts, Literature & Language

# ENGB17H3 - Contemporary Literature from the Caribbean

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 Requirements: 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 Requirements: Arts, Literature & Language

# ENGB22H3 - Contemporary Literature from Africa

A study of fiction, drama, and poetry from Englishspeaking 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.

Exclusion: (ENGC72H3), ENG278Y Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 important literary texts in English that retell classical myths. Pre-1900 Course

**Exclusion:** (ENGC58H3), (ENGC60H3), (ENGC61H3) **Breadth Requirements:** 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 guesting 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 Requirements: 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, (ENGB10H3) Breadth Requirements: 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: (ENGB10H3), ENG220Y **Recommended Preparation: ENGB32H3** Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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, (ENGC57H3) Breadth Requirements: Arts, Literature & Language

## ENGB39H3 - Tolkien's Middle Ages

This course considers the relationship between modern fantasy and medieval literature through the work of J.R.R. Tolkien. A professor of medieval literature at Oxford, Tolkien used his academic research to develop the mythology, language, and literature of Middle Earth. This course will survey both Tolkien's writing, including the *Lord of the Rings* trilogy, and the medieval poetry that inspired it, from Old English heroic epic to Welsh folklore. Throughout, we will consider how and why the middle ages offer such compelling material for 20th and 21st century fantasy.

Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** Arts, Literature & Language **Note:** Admission by portfolio. The portfolio should contain 5-15 pages of poetry. Please email your portfolio to <u>dtysdal@utsc.utoronto.ca</u> 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 Requirements:** 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 <u>awestoll@utsc.utoronto.ca</u> 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 Writing: Creative Nonfiction I

An introduction to the craft of creative nonfiction. 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 nonfiction.

#### **Enrolment Limits: 20**

**Breadth Requirements:** Arts, Literature & Language **Note:** Admission by portfolio. The portfolio should contain 5-10 pages (double-spaced) of your strongest fiction or nonfiction writing. Please email your portfolio to <u>awestoll@utsc.utoronto.ca</u> no later than August 1st (for Fall course offering) or October 1st (for Winter course offering).

### ENGB70H3 - How to Read a Film

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 Requirements: Arts, Literature & Language

## ENGB74H3 - 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.

**Exclusion:** (VPAC47H3), (VPHC47H3), (ENGC76H3) **Breadth Requirements:** Arts, Literature & Language

## ENGB75H3 - Cinema and 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 Requirements: Arts, Literature & Language

## ENGB76H3 - Cinema and 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: (ENG238H) Breadth Requirements: Arts, Literature & Language

# ENGC01H3 - Indigenous Literature of Turtle Island (Canada)

This course introduces students to a diverse selection of recent writing by Indigenous authors in Canada/Turtle Island, including novels, poetry, drama, essays, oratory and autobiography. Discussion of literature is grounded in Indigenous literary criticism, which addresses such issues as appropriation of voice, language, land, spirituality, orality, colonialism, gender, hybridity, authenticity, resistance, sovereignty and anti-racism.

Prerequisite: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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 societies, groups, and identities.

Prerequisite: Any 6.0 credits Exclusion: ENG353Y, (ENG216Y) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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 screenplay, play, or fiction. Please email your portfolio to <u>dtysdal@utsc.utoronto.ca</u> 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 Requirements: 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 <u>dtysdal@utsc.utoronto.ca</u> 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

**Recommended Preparation:** Students should have developed a small body of creative works before enrolling in this course.

Enrolment Limits: 20 Breadth Requirements: 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 <u>dtysdal@utsc.utoronto.ca</u> 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 Requirements: 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:** Any 6.0 credits or [VPDB10H3 and VPDB11H3] **Exclusion:** ENG352H, (ENG223H)

**Recommended Preparation:** ENGA01H3 or ENGA02H3 **Enrolment Limits:** 45 **Breadth Requirements:** 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 <u>dtysdal@utsc.utoronto.ca</u> 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 Requirements: Arts, Literature & Language

### **ENGC09H3 - Canadian Poetry**

A study of contemporary Canadian poetry in English, with a changing emphasis on the poetry of particular timeperiods, 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: Any 6.0 credits Exclusion: ENG354Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

### **ENGC10H3 - Studies in Shakespeare**

An in-depth study of selected 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: Any 6.0 credits Exclusion: ENG336H Recommended Preparation: [ENGA01H3 and ENGA02H3 and ENGB27H3] or ENGB32H3 or ENGB33H3 Enrolment Limits: 45 Breadth Requirements: 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.

Prerequisite: Any 6.0 credits Exclusion: (ENGA18H3) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# ENGC13H3 - Ethnic Traditions in American Literature

A survey of the literature of Native Peoples, Africans, Irish, Jews, Italians, Latinos, and South 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# ENGC15H3 - Introduction to Theory and 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: Any 6.0 credits Exclusion: ENG280H, (ENG267H) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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 such narratives as the fall of Adam and Eve, Noah's flood, Abraham's binding of Isaac, the life of Moses, The Song of Solomon, Job, Jonah, and Jeremiah both as works of literature in their own right and as influences upon later works of literature. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: (ENGB42H3), (ENG200Y) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Exclusion: (ENGB43H3), (ENG200Y) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# ENGC18H3 - Colonial and Postcolonial Literature

Over the course of five centuries, European empires changed the face of every continent. The present world bears the traces of those empires in the form of nationstates, capitalism, population transfers, and the spread of European languages. We will consider how empire and resistance to empire have been imagined and narrated in a variety of texts.

Prerequisite: Any 6.0 credits Exclusion: ENG270Y Recommended Preparation: ENGA01H3 and ENGA02H3 Breadth Requirements: Arts, Literature & Language

## **ENGC19H3 - Transnational Literature**

The world is increasingly interrelated - economically, digitally, and culturally. Migrants and capitalists move across borders. So do criminals and terrorists. Writers, too, travel between countries; novels and films are set in various locales. How have writers had to re-invent generic conventions to imagine the world beyond the nation and the new links among distant places?

Prerequisite: Any 6.0 credits Exclusion: ENG370H Recommended Preparation: ENGA01H3 and ENGA02H3 Breadth Requirements: Arts, Literature & Language

### **ENGC21H3 - The Victorian Novel**

A study of major novels in the Victorian period. Authors studied might include Charles Dickens, the Bronte sisters, George Eliot, and Thomas Hardy. Central to the study of the novel in the period are concerns about social and political justice, historical awareness, personal perspective and narration, and the development of realism. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: ENG324Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

## **ENGC22H3 - Victorian Popular Fiction**

A study of popular fiction during the Victorian period. This course examines the nineteenth-century emergence of genres of mass-market fiction, which remain popular today, such as historical romance, mystery and detective fiction, imperial adventure, fantasy, and science fiction. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: ENG324Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Exclusion: ENG239H Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 60 Breadth Requirements: Arts, Literature & Language Note: Preference will be given to students pursuing any program in English.

# ENGC24H3 - Creative Writing: The Art of the Personal Essay

This writing workshop is based on the art and craft of the personal essay, a form of creative nonfiction characterized by its commitment to self-exploration and experiment. Students will submit their own personal essays for workshop, and become acquainted with the history and contemporary resurgence of the form.

#### Prerequisite: ENGB63H3 Enrolment Limits: 20

**Breadth Requirements:** Arts, Literature & Language **Note:** Note: Admission by portfolio. The portfolio should contain 5-10 pages (double-spaced) of your strongest fiction or non-fiction writing. Please email your portfolio to <u>awestoll@utsc.utoronto.ca</u> no later than August 1st (for Fall course offering) or October 1st (for Winter course offering).

## **ENGC25H3 - Victorian Poetry and Prose**

An introduction to the poetry and nonfiction prose of the Victorian period, 1837-1901. Representative authors are studied in the context of a culture in transition, in which questions about democracy, social inequality, the rights of women, national identity, imperialism, and science and religion are prominent. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: (ENGB45H3) Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits or [VPDB10H3 and VPDB11H3] Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

## ENGC27H3 - Drama: Comedy

An historical exploration of comedy as a major form of dramatic expression. Comedy, like its more august counterpart 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: Any 6.0 credits or [VPDB10H3 and VPDB11H3] Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Exclusion: ENG300Y Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB27H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

## ENGC30H3 - Studies in Medieval Literature

A study of selected medieval texts by one or more authors. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: ENG311H Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB27H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Exclusion: ENG304Y Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB27H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: [ENGA01H3 and ENGA02H3] or ENGB27H3 or ENGB50H3 Enrolment Limits: 45 Breadth Requirements: 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 and poetry together with travel writing, language manuals for learning foreign tongues, costume books, and maps. Pre-1900 course

Prerequisite: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB27H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Exclusion: ENG305H Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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

Prerequisite: Any 6.0 credits Exclusion: ENG322Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# 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 relation to its readers, to neighbouring genres such as letters, nonfiction travel writing, and conduct manuals, and to culture more generally. Authors might include Richardson, Fielding, Sterne, Burney, Austen and others. Pre-1900 course

Prerequisite: Any 6.0 credits Exclusion: ENG322Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

## ENGC40H3 - Medieval Life Writing

From Augustine's *Confessions* to Dante's *New Life*, medieval writers developed creative means of telling their life stories. This course tracks medieval life-writing from Augustine and Dante to later figures such as Margery Kempe—beer brewer, mother of fourteen, and selfproclaimed saint—Thomas Hoccleve, author of the first description of a mental breakdown in English literature, and Christian convert to Islam Anselmo Turmeda/'Abd Allāh al-Turjumān. In these texts, life writing is used for everything from establishing a reputation to recovering from trauma to religious polemic. The course will also explore how medieval life writing can help us to understand 21st century practices of self-representation, from selfies to social media.

**Prerequisite:** Any 6.0 credits **Recommended Preparation:** ENGA01H3 and ENGA02H3 and ENGB27H3 **Breadth Requirements:** 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: Any 6.0 credits Exclusion: ENG308Y Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB27H3 Enrolment Limits: 45 Breadth Requirements: 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, and with cultural and national others.

Prerequisite: Any 6.0 credits Recommended Preparation: [ENGA01H3 and ENGA02H3] or ENGB70H3 Enrolment Limits: 45 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGB04H3 Enrolment Limits: 45 Breadth Requirements: 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 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: Any 6.0 credits Exclusion: (ENGD67H3) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

### ENGC50H3 - Studies in Contemporary American Fiction

Developments in American fiction from the end of the 1950's to the present: 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, among others.

Prerequisite: Any 6.0 credits Exclusion: ENG365H, (ENG361H) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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. Issues of gender, religion, class, nationalism, and colonialism will be examined from the perspective of Arab women from both the Arab world and North America.

Prerequisite: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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.

Prerequisite: Any 6.0 credits Exclusion: (ENGB51H3) Recommended Preparation: ENGA01H3 and ENGA02H3 Breadth Requirements: 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: Any 6.0 credits Recommended Preparation: [ENGA01H3 and ENGA02H3] or ENGB70H3 Enrolment Limits: 45 Breadth Requirements: 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:** Any 6.0 credits or [SOCB58H3; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities] **Recommended Preparation:** ENGA01H3 and ENGA02H3 **Enrolment Limits:** 45 **Breadth Requirements:** 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 60

**Breadth Requirements:** Arts, Literature & Language **Note:** Preference will be given to students pursuing an English program

# **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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# ENGC71H3 - The Immigrant Experience in Literature since 1980

A continuation of ENGC70H3, focusing on texts written since 1980.

Prerequisite: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 and ENGC70H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

# ENGC78H3 - Dystopian Visions in Fiction and Film

An exploration of negative utopias and post-apocalyptic worlds in film and literature. 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: Any 6.0 credits Recommended Preparation: [ENGA01H3 and ENGA02H3] or ENGB70H3 Enrolment Limits: 60 Breadth Requirements: Arts, Literature & Language

### ENGC79H3 - Above and Beyond: Superheroes in Fiction and Film

This course will explore the literary history and evolution of the superhero, from its roots in the works of thinkers such as Thomas Carlyle and Friedrich Nietzsche to the wartime birth of the modern comic book superhero to the contemporary pop culture dominance of transmedia experiments like the "universes" created by Marvel and DC. We will explore the superhero in various media, from prose to comics to film and television, and we will track the superhero alongside societal and cultural changes from the late 19th century to the present.

**Prerequisite:** Any 6.0 credits **Breadth Requirements:** 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA01H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

## **ENGC82H3 - Topics in Cinema Studies**

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: Any 6.0 credits Recommended Preparation: [ENGA01H3 and ENGA02H3] or ENGB70H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

### ENGC83H3 - 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:** Any 6.0 credits or [SOCB58H3; and an additional 4.0 credits; and registration in the Minor in Culture, Creativity, and Cities] **Recommended Preparation:** [ENGA01H3 and ENGA02H3] or ENGB70H3 **Enrolment Limits:** 45 **Breadth Requirements:** Arts, Literature & Language

### **ENGC84H3 - Cinema and Migration**

This course introduces students to cinema by, and about, immigrants, refugees, migrants, and exiles. Using a comparative world cinema approach, the course explores how the aesthetics and politics of the cinema of migration challenge theories of regional, transnational, diasporic, and global cinemas.

Prerequisite: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Breadth Requirements: 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 <u>dtysdal@utsc.utoronto.ca</u> by the first Tuesday of August (for a Fall semester offering) or by the first Monday of Octobeer (for a Winter semester offering).

#### Prerequisite: ENGB60H3

**Recommended Preparation:** Students should have developed a small body of creative works before enrolling in this course.

Enrolment Limits: 20

Breadth Requirements: 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 <u>awestoll@utsc.utoronto.ca</u> 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 Requirements: Arts, Literature & Language

# ENGC88H3 - Creative Writing: Creative Nonfiction 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 Requirements:** Arts, Literature & Language **Note:** Admission by portfolio. The portfolio should contain 10-15 pages of your best fiction or creative non-fiction. Please email your portfolio to <u>awestoll@utsc.utoronto.ca</u> by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).

# 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:** Any B-level course in Creative Writing **Recommended Preparation:** Students should have developed a small body of creative works before enrolling in this course.

#### **Enrolment Limits: 20**

**Breadth Requirements:** Arts, Literature & Language **Note:** Please submit your portfolio to the English Departmental Assistant in HW427 by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).

# 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: Any 6.0 credits Exclusion: CLAC01H3, (ENGC58H3), (ENGC60H3), (ENGC61H3) Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: Arts, Literature & Language

### **ENGC91H3 - American Realisms**

An exploration of late nineteenth- and early twentiethcentury 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: Any 6.0 credits Recommended Preparation: ENGA01H3 and ENGA02H3 Enrolment Limits: 45 Breadth Requirements: 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
## 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 Requirements: 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 and [ ENGB22H3 or ( ENGC72H3)]] **Enrolment Limits:** 22 **Breadth Requirements:** 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

## **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: 1.0 credit at the C- level in ENG courses Exclusion: (ENGC73H3), (ENGD63H3) Enrolment Limits: 22 Breadth Requirements: Arts, Literature & Language

## 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:** 1.0 credit at the C-level in ENG courses **Recommended Preparation:** ENGC10H3 or ENGC32H3 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: 1.0 credit at the C-level in ENG courses Recommended Preparation: ENGC10H3 or ENGC32H3 or ENGC33H3 or ENGC34H3 or ENGC35H3 Enrolment Limits: 22 Breadth Requirements: Arts, Literature & Language

# 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 <u>dtysdal@utsc.utoronto.ca</u> by the first Tuesday of August (for a Fall semester offering) or by the first Monday of October (for a Winter semester offering).

**Prerequisite:** [0.5 credit at the B-level in Creative Writing] and [0.5 credit at the C-level in Creative Writing] **Recommended Preparation:** Students should have developed a small body of creative works before enrolling in this course.

**Enrolment Limits: 20** 

Breadth Requirements: 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 <u>dtysdal@utsc.utoronto.ca</u> 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 <u>awestoll@utsc.utoronto.ca</u> 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 <u>dtysdal@utsc.utoronto.ca</u> by the last Friday of April (for Independent Studies beginning in either the Fall or Winter semesters).

**Prerequisite:** [[ ENGB60H3 and 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's Early Works

Advanced study of Chaucer's early writings, from *The Book of the Duchess* to *Troilus and Criseyde*. Consisting of dream visions, fantastic journeys, and historical fictions, these works all push beyond the boundaries of everyday experience, depicting everything from the lifestyles of ancient Trojans to a flight through the stars. This course will explore the forms and literary genres that Chaucer uses to mediate between the everyday and the extraordinary. We will also consider related problems in literary theory and criticism, considering how scholars bridge the gap between our own time and the medieval past.

Prerequisite: 1.0 credit at the C-level in ENG courses Recommended Preparation: ENGC29H3 or ENGC30H3 or ENGC40H3 Enrolment Limits: 22 Breadth Requirements: 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 Requirements:** 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:** 1.0 credit at the C-level in ENG courses **Enrolment Limits:** 22 **Breadth Requirements:** Arts, Literature & Language

### ENGD50H3 - Fake Friends and Artificial Intelligence: the Human-Robot Relationship in Literature and Culture

This course will explore the portrayal of the human-robot relationship in conjunction with biblical and classical myths. The topic is timely in view of the pressing and increasingly uncanny facets of non-divine, non-biological creation that attend the real-world production and marketing of social robots. While the course looks back to early literary accounts of robots in the 1960s, it concentrates on works written in or after the 1990s. The course aims to analyze how a particular narrative treatment of the robot-human relationship potentially alters our understanding of its mythical intertext and, by extension, notions of divinity, humanity, gender, animality, disability, and relations of kinship and care.

**Prerequisite:** 1.0 credit at the C- level in ENG courses **Enrolment Limits:** 22 **Breadth Requirements:** 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 Requirements: 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 Requirements:** Arts, Literature & Language

# ENGD54H3 - Comparative Approaches to Literature and Culture

An in-depth examination of a theme or topic though 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 Requirements:** 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 Requirements: 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:** ENGB08H3 **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 prosewriters.

**Prerequisite:** 2 C-level courses in English **Recommended Preparation:** ENGB09H3 **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

## 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 Requirements: 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 Requirements: 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 Requirements: 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:** 1.0 credit at the C-level in ENG courses **Exclusion:** ENG443Y **Enrolment Limits:** 22

## 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 Requirements: 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 Requirements: 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 Breadth Requirements: Arts, Literature & Language

## ENGD95H3 - Creative Writing as a Profession

A practical introduction to the tools, skills and knowledgebase 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 Requirements: 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 Requirements:** 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 Dlevel in English. Exclusion: ENG490Y Recommended Preparation: At least one D-level course in English Enrolment Limits: 15

## **Environmental Science**

#### Faculty List

- <u>G.B. Arhonditsis</u>, B.Sc., M.Sc. (Agricultural Univ. of Athens, Greece), Ph.D. (Univ. of the Aegean, Greece), Professor
- <u>H. Daxberger</u>, Dipl. Geol. (Fredrich Alexander University, Germany), Ph.D. (McMaster), Assistant Professor, Teaching Stream
- <u>M. Dittrich</u>, M.S. (Moscow), Ph.D. (Humbolt), Associate Professor
- <u>N. Eyles</u>, 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
- <u>M.E. Isaac</u>, Ph.D. (Toronto), Associate Professor
- J.P. Lowman, B.Sc. (Toronto), M.Sc., Ph.D. (York, Canada), Professor
- J.I. MacLellan, R.P.F. (New Brunswick), B.A., B.Sc., M.Sc., Ph.D. (Toronto), Lecturer
- <u>A. Martin</u>, B.A.(Hon.), M.F.C., Ph.D. (Toronto), Assistant Professor
- <u>M. Meriano</u>, 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), Senior 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
- K. Smith, B.Sc. (Queen's), M.Sc. (California Institute of Technology), Ph.D. (Toronto)
- <u>F. Wania</u>, Dipl.Geook. (Bayreuth), Ph.D. (Toronto), Professor
- <u>M. Wells</u>, B.Sc., Ph.D. (Australian National), Associate Professor
- J.A. Westgate, B.Sc. (Reading), Ph.D. (Alberta), Professor Emeritus
- <u>D.D. Williams</u>, 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.

All Environmental Science Specialist programs (Environmental Biology, Environmental Chemistry, Environmental Geoscience, Environmental Physics, and Environmental Science) 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 (EPt) designation, which is a developmental certification for emerging environmental professionals. To learn more about the EPt program see: <a href="http://www.eco.ca/accreditation">http://www.eco.ca/accreditation</a>.

The overall purpose of the 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.

Students are cautioned that some courses in Environmental Science (EES) may include Ancillary fees.

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 Biology (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Biology (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, 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 Geoscience (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Geoscience (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, 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
- Environmental Physics (Specialist), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering
- Environmental Physics (Specialist Co-op), Honours Bachelor of Science/ Chemical Engineering & Applied Chemistry, Master of Engineering

For more information, including Admission and Program requirements, see the <u>Combined Degree Programs</u> 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 <u>Combined Degree Programs</u> section of this *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Environmental Science Programs**

## SPECIALIST PROGRAM IN ENVIRONMENTAL BIOLOGY (SCIENCE)

Supervisor of Studies: M. Isaac (416-287-7276) Email: marney.isaac@utoronto.ca

#### **Program Requirements**

Total requirements: 14.0 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 <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms <u>MATA30H3</u> Calculus I for Physical Sciences [<u>MATA35H3</u> Calculus II for Biological Sciences or <u>MATA36H3</u> Calculus II for Physical Sciences or <u>MATA37H3</u> Calculus II for Mathematical Sciences]\* [PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]

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 credit from the following:

- EESB03H3 Principles of Climatology
- <u>EESB04H3</u> Principles of Hydrology
- EESB05H3 Principles of Soil Science
- <u>CHMB55H3</u> Environmental Chemistry

#### Third and Fourth Years:

2.0 credits as follows:

EESC03H3 Geographic Information Systems and Remote Sensing

EESC04H3 Biodiversity and Biogeography

EESC30H3 Environmental Microbiology

EESC13H3 Environmental Impact Assessment and Auditing

and

2.0 credits from the following:

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

BIOC62H3 The Role of Zoos and Aquariums in Conservation

BIOC63H3 Conservation Biology (BIOC67H3) Inter-University Biology Field Course and 1.0 credit from the following: 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 Biodiversity and Conservation BIOD60H3** Spatial Ecology BIOD66H3 Causes and Consequences of Biodiversity **BIOD95H3** Supervised Study in Biology BIOD98Y3 Research Project in Biology PSCD11H3 Communicating Science: Film, Media, Journalism, and Society

# SPECIALIST (CO-OPERATIVE) PROGRAM IN ENVIRONMENTAL BIOLOGY (SCIENCE)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Environmental Biology is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Environmental Biology upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.5 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>EESA01H3</u>, <u>EESA06H3</u>, <u>MATA30H3</u>, [<u>MATA35H3</u> or <u>MATA36H3</u> or <u>MATA37H3</u>] and <u>PHYA10H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Environment

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Environmental Biology and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

#### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

#### 3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term

#### 4. <u>COPD12H3</u> – Integrating Your Work Term Experience Part I

- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### 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 credits

**First Year:** <u>EESA01H3</u> Introduction to Environmental Science <u>EESA06H3</u> Introduction to Planet Earth <u>BIOA01H3</u> Life on Earth: Unifying Principles BIOA02H3 Life on Earth: Form, Function and Interactions <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA36H3</u> Calculus II for Physical Sciences <u>PHYA10H3</u> Physics I for the Physical Sciences

#### Second Year:

<u>CHMB16H3</u> Techniques in Analytical Chemistry <u>CHMB20H3</u> Chemical Thermodynamics and Elementary Kinetics <u>CHMB41H3</u> Organic Chemistry I <u>CHMB55H3</u> Organic Chemistry II <u>CHMB55H3</u> Environmental Chemistry <u>EESB15H3</u> Earth History <u>STAB22H3</u> Statistics I and 1.0 credit from the following:

### 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 EESC20H3 Geochemistry CHMB31H3 Introduction to Inorganic Chemistry CHMC11H3 Principles of Analytical Instrumentation PSCB57H3 Introduction to Scientific Computing

#### Fourth Year:

<u>EESC13H3</u> Environmental Impact Assessment and Auditing <u>CHMD16H3</u> 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
- PSCD11H3 Communicating Science: Film, Media, Journalism, and Society

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 (CO-OPERATIVE) PROGRAM IN ENVIRONMENTAL CHEMISTRY (SCIENCE)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Environmental Chemistry is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Environmental Chemistry upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.5 credits, including, <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>EESA01H3</u>, <u>EESA06H3</u>, <u>MATA30H3</u>, [<u>MATA35H3</u> or <u>MATA36H3</u> or <u>MATA37H3</u>] and <u>PHYA10H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Environmental Chemistry.

#### Co-op Work Term Requirements

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Environmental Chemistry and have completed at least 7.0 credits, including <u>CHMB16H3</u>.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

- 2. COPD03H3 Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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 <u>APGO website</u> for further information on requirements to become a Professional Geoscientist (P.Geo) in Ontario.

#### **Program Requirements**

Total requirements: 15.5 credits of which 1.0 credit 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 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences]

#### 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

- 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 Advanced Watershed Hydrology
- EESD13H3 Environmental Law, Policy and Ethics
- EESD15H3 Fundamentals of Site Remediation
- EESD19H3 Professional Development Seminars in Geoscience
- EESD20H3 Geological Evolution and Environmental History of North America

and

[1.0 credit at the C- or D-level in EES courses] or [0.5 credit at the C- or D-level in EES courses and <u>PSCD11H3</u>] *Strongly recommended*: <u>EESC16H3</u> Field Camp I or <u>EESD07H3</u> Field Camp II or <u>EESD33H3</u> Field Techniques

# SPECIALIST (CO-OPERATIVE) PROGRAM IN ENVIRONMENTAL GEOSCIENCE (SCIENCE)

Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Environmental Geoscience is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Environmental Geoscience upon graduation.

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. Please visit the APGO website for further information on requirements to become a Professional Geoscientist (P.Geo) in Ontario.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.5 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>EESA01H3</u>, <u>EESA06H3</u>, <u>MATA30H3</u>, [<u>MATA35H3</u> or <u>MATA36H3</u> or <u>MATA37H3</u>] and <u>PHYA10H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Environmental Geoscience.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Environmental Geoscience and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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 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 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences] EESA06H3 Planet Earth Note: MATA35H3 cannot be used to fulfill the prerequisites for PSCB57H3

#### Second Year

STAB22H3 Statistics I

and

- 1.5 credits from the following:
- EESB03H3 Principles of Climatology
- <u>EESB04H3</u> Principles of Hydrology
- EESB05H3 Principles of Soil Science
- EESB15H3 Earth History
- EESB16H3 Feeding Humans The Cost to the Planet

and

- 0.5 credit from the following:
- BIOB50H3 Ecology
- EESB02H3 Principles of Geomorphology
- EESB17H3 Hydro Politics and Transboundary Water Resource Management
- PSCB57H3 Introduction to Scientific Computing
- <u>CHMB55H3</u> Environmental Chemistry

#### Third & Fourth Years

[2.0 credits at the C- or D-level in EES courses with at least 0.5 credit at the D-level] or [1.5 credits at the C- or D-level in EES courses and <u>PSCD11H3</u>]

### **MAJOR (CO-OPERATIVE) PROGRAM IN ENVIRONMENTAL SCIENCE**

Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Environmental Science is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Environmental Science upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including, <u>BIOA01H3</u>, <u>BIOA02H3</u>, and <u>EESA06H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Environmental Science.

#### Co-op Work Term Requirements

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Environmental Science and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

#### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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 credits

#### **First Year:**

EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth

#### Second Year:

1.5 credits from the following: <u>EESB02H3</u> Principles of Geomorphology <u>EESB03H3</u> Principles of Climatology <u>EESB04H3</u> Principles of Hydrology <u>EESB05H3</u> Principles of Soil Science <u>EESB15H3</u> Earth History

#### Third Year:

[1.5 credits in EES courses of which 1.0 credit must be at the C- or D-level] or [1.0 credit at the C- or D-level in EES courses and PSCD11H3]

## MINOR PROGRAM IN NATURAL SCIENCES AND ENVIRONMENTAL MANAGEMENT (SCIENCE)

This Minor is designed to provide students with a multidisciplinary education encompassing the origin and natural history of the Earth, environmental science and environmental management, with emphasis on how these branches of study relate to one another. Building on foundational courses in natural and environmental science, students will develop decision-analysis techniques and a broad perspective on human impact on the environment. In upper years, knowledge of natural, environmental and social sciences is implemented in analyses of real-world issues through integrative environmental studies courses. The program is well suited to complement degree programs in Management, Economics for Management Studies and the Social Sciences. First year students are strongly advised to check prerequisites for B-and C-level courses before choosing their A-level courses.

**Note**: The Minor in Natural Sciences and Environmental Management cannot be combined with the Major in Environmental Science (Science), the Major Environmental Studies (Arts) or the Minor in Environmental Science (Science).

#### **Program Requirements**

Students must complete a total of 4.0 credits as follows:

#### First Year:

1.0 credit from the following: <u>ASTA01H3</u> Introduction to Astronomy and Astrophysics I: The Sun and Planets <u>ASTA02H3</u> Introduction to Astronomy and Astrophysics II: Beyond the Sun and Planets <u>EESA06H3</u> Introduction to Planet Earth <u>EESA10H3</u> Wind <u>EESA10H3</u> Human Health and the Environment <u>EESA11H3</u> Environmental Pollution <u>ESTB01H3</u> Introduction to Environmental Studies

#### Second/Third Year:

1.5 credits from the following: <u>ASTB03H3</u> Great Moments in Astronomy\* <u>EESB05H3</u> Principles of Soil Science\*\* <u>EESB15H3</u> Earth History\*\* <u>EESB16H3</u> Feeding Humans - The Cost to the Planet\*\*\* <u>EESB18H3</u> Natural Hazards <u>EESC13H3</u> Environmental Impact Assessment and Auditing <u>EESC34H3</u> Sustainability in Practice

#### Third/Fourth Year:

1.5 credits from the following: <u>ESTC35H3</u> Environmental Science and Technology in Society <u>ESTC36H3</u> Knowledge, Ethics and Environmental Decision-Making <u>POLC53H3</u> Canadian Environmental Policy <u>ESTD16H3</u> Project Management in Environmental Studies <u>ESTD17Y3</u> Cohort Capstone Course in Environmental Studies <u>PSCD02H3</u> Current Questions in Mathematics and Science PSCD11H3 Communicating Science: Film, Media, Journalism, and Society

Notes:

\* ASTB03H3 cannot be taken in combination with any other AST course in the program.

\*\*Students in the Minor in Natural Sciences and Environmental Management must take <u>EESA06H3</u> as the prerequisite for these courses.

\*\*\*The prerequisites for this course are <u>BIOA01H3</u> and <u>BIOA02H3</u>, which are not included in the requirements for the Minor.

### **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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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.

#### Breadth Requirements: Natural Sciences

## **EESA11H3 - Environmental Pollution**

This course illustrates the environmental effects of urban expansion, changing methods of agriculture, industrialization, recreation, resource extraction, energy needs and the devastation of war. Drawing on information from a wide spectrum of topics - such as waste disposal, tourism, the arctic, tropical forests and fisheries - it demonstrates what we know about how pollutants are produced, the pathways they take through the global environment and how we can measure them. The course will conclude with an examination of the state of health of Canada's environments highlighting areas where environmental contamination is the subject of public discussion and concern. No prior knowledge of environmental science is required.

Breadth Requirements: Natural Sciences

## 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 man-modified geomorphic system.

Prerequisite: EESA06H3 Exclusion: GGR201H Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: Natural Sciences

# 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 and BIOA02H3 **Breadth Requirements:** 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 Requirements: Social & Behavioural 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 super-continent 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: EESA06H3

**Breadth Requirements:** Natural Sciences **Note:** Note: Priority will be given to students in Specialist programs in Environmental Geoscience, Environmental Biology, and Environmental Chemistry.

### **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 nonspecialist to understand headline-making geological events of topical interest. No prior knowledge of the Earth Sciences is required.

**Exclusion:** (EESA05H3), GLG103H **Breadth Requirements:** 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 Requirements: 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: ESS331H, ESS332H, ERS313H Breadth Requirements: 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 and 0.5 credit at the B-level in EES courses Corequisite: 0.5 credit at the B-level in EES courses Recommended Preparation: GGRB30H3 Breadth Requirements: 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 Requirements: 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 and 1.0 full credit in B-level EES courses **Breadth Requirements:** Natural Sciences

## EESC13H3 - Environmental Impact Assessment and Auditing

To familiarize students with the relevant legislation, qualitative and quantitative approaches and applications for environmental impact assessments and environmental auditing. The focus will be on the assessment of impacts to the natural environment, however, socio-economic impacts will also be discussed. Environmental auditing and environmental certification systems will be discussed in detail. Examples and case studies from forestry, wildlife biology and land use will be used to illustrate the principles and techniques presented in the course. Students will acquire "hands-on" experience in impact assessment and environmental auditing through case studies.

Prerequisite: 1.0 credit in EES courses Corequisite: 0.5 credit in EES courses Exclusion: GGR393H Breadth Requirements: 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 Requirements:** 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 guality/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: EESB03H3 Recommended Preparation: EESB02H3 Breadth Requirements: 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: EESB03H3 Recommended Preparation: EESB02H3 Breadth Requirements: 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 Requirements: Natural Sciences

## EESC24H3 - 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.

### 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 phylogeny, physiological diversity, species interactions and state of the art methods of detection and enumeration.

Prerequisite: CHMA10H3 and CHMA11H3 and BIOB50H3 and BIOB51H3 Exclusion: (BGYC55H3) Breadth Requirements: 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 Requirements:** 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 and permission of instructor. Exclusion: (EEB310H) Enrolment Limits: 20 Breadth Requirements: 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: EESA06H3 and an additional 9.5 credits Exclusion: ESTC34H3 Enrolment Limits: 20 Breadth Requirements: 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 Requirements:** 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: 30 Breadth Requirements: 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 Requirements:** 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 Requirements: 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 and permission of the instructors **Breadth Requirements:** 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

## EESD11H3 - Advanced Watershed Hydrology

The motion of water at the hill slope and drainage basin scales. The relationship between surface and subsurface hydrological processes. Soil hydrologic processes emphasizing infiltration. Stream flow generation mechanisms, hydrometric and isotopic research methods. Problems of physically based and empirical modelling of hydrological processes. Snowmelt energetics and modelling.

Prerequisite: EESB04H3 Breadth Requirements: 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 can 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 Requirements:** 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 and BIOA02H3 and CHMA10H3 and CHMA11H3 and [PHYA10H3 or PHYA11H3] **Breadth Requirements:** 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: At least 14.5 credits Exclusion: ESTD16H3 Enrolment Limits: 30 Breadth Requirements: Natural Sciences

# 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: At least 14.5 credits Exclusion: ESTD17Y3 Enrolment Limits: 30 Breadth Requirements: 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 inclass debate. Same as ESTD18H3

Prerequisite: At least 14.5 credits Exclusion: ESTD18H3 Breadth Requirements: Natural Sciences

### EESD19H3 - Professional Development Seminars in Geoscience

This course consists of 12 lectures given by senior industry professionals to prepare students for a postgraduate career in environmental consulting. Lectures will convey the full range of consulting activities, including visits to environmental investigation sites in the Toronto 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 Requirements:** Natural Sciences

## EESD20H3 - Geological Evolution and Environmental History of North America

This course reviews the geological and environmental evolution of the North American continent over the past 4 billion years by exploring the range of plate tectonics involved in continental growth and how those processes continue today. It will explore major changes in terrestrial and marine environments through geologic time and associated organisms and natural resources of economic importance, and will conclude with an examination of recent human anthropogenic influences on our environment especially in regard to urban areas and associated problems of waste management, resource extraction, geological hazards, and the impacts of urbanization on watersheds and water resources. The course will include a weekend field trip to examine the geology and urban environmental problems of The Greater Toronto Area. It provides students in environmental science with a fundamental knowledge of the importance of environmental change on various timescales and the various field methods used to assess such changes.

**Prerequisite:** 15.0 credits, including at least 4.0 credits at the C- or D-level **Exclusion:** (EESC21H3) **Breadth Requirements:** Natural Sciences

## **EESD33H3 - Field Techniques**

This course consists of a series of modules designed for students to gain practical skills necessary to investigate and characterize complex environmental systems. Field projects will allow students to collect scientific data that they will use to interpret the geology, hydrogeology, and chemistry of natural and anthropogenic environments.

Prerequisite: EESB02H3 and EESB04H3 and EESC07H3

Exclusion: EES330H, GGR390H, GGR379H Enrolment Limits: 30

**Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Specialist/Specialist Co-op programs in Environmental Science.

## **Environmental Science and Technology**

The Specialist (Joint) program in Environmental Science and Technology is closed effective the 2018-2019 academic year.

## 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 Requirements:** 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 and CHMB42H3 Note: CHMB41H3 and CHMB42H3 may be taken after STEB21H3, but STEB21H3 may not be taken after CHMB41H3 or CHMB42H3. **Breadth Requirements:** 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 and IMCB01H3 **Breadth Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: 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 and STEB07H3 **Exclusion:** CHMC16H3 Note: STEC15H3 may not be taken after CHMC16H3, but CHMC16H3 may be taken after STEC15H3.

Breadth Requirements: 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 Requirements:** 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 and STEB42H3 **Breadth Requirements:** 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 and STEB21H3 and STEB07H3 **Breadth Requirements:** Natural Sciences

## **Environmental Studies**

#### Faculty List

- <u>G.B. Arhonditsis</u>, 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
- <u>M. Hoffmann</u>, B.S. (Michigan Technological University), Ph.D. (George Washington University), Associate Professor
- M.E. Isaac, B.Sc., M.Sc. (Guelph), Ph.D. (Toronto), Associate 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
- <u>K. MacDonald</u>, B.A. (Wilfrid Laurier), M.A., Ph.D. (Waterloo), Assistant Professor
- J.I. MacLellan, R.P.F. (New Brunswick), B.A., B.Sc., M.Sc., Ph.D. (Toronto), Lecturer
- A. Martin, B.A. (Hon), M.F.C., Ph.D. (Toronto), Assistant Professor
- <u>C. Mitchell</u>, 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. Narayanareddy, 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 the knowledge\tools needed to solve them. 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 basic principles characterizing a typical program in Environmental Studies and the importance of building bridges among the various disciplines involved.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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 the following:

- ANTB01H3 Political Ecology
- GGRA03H3 Cities and Environments
- POLA01H3 Critical Issues in Politics I
- POLA02H3 Critical Issues in Politics II
- POLB80H3 Introduction to International Relations I

and

- 0.5 credit chosen from the following:
- EESA06H3 Introduction to Planet Earth
- EESA07H3 Water
- EESA09H3 Wind
- EESA10H3 Human Health and the Environment
- EESA11H3 Environmental Pollution
- EESB18H3 Natural Hazards

#### 2. Foundations and Skills (4.0 credits)

ESTC35H3 Environmental Science and Technology in Society

- ESTC36H3 Knowledge, Ethics and Environmental Decision-Making
- IDSB02H3 Development and Environment

STAB22H3 Statistics I (or equivalent)

and

2.0 credits chosen from the following:

- EESB03H3 Principles of Climatology
- EESB04H3 Principles of Hydrology
- EESB05H3 Principles of Soil Science
- EESB17H3 Hydro Politics and Transboundary Water Resources Management
- EESC13H3 Environmental Impact Assessment and Auditing
- EESD13H3 Environmental Law, Policy and Ethics
- ESTC34H3 Sustainability in Practice
- GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning
- GGRB21H3 Political Ecology: Nature, Society and Environmental Change
- (GGRC22H3) Political Ecology Theory and Applications
- GGRC26H3 Geographies of Environmental Governance
- GGRC44H3 Environmental Conservation and Sustainable Development
- POLC53H3 Canadian Environmental Policy
- POLD89H3 Global Environmental Politics
- SOCC37H3 Environment and Society

#### 3. Capstone and Applications (2.0 credits)

[<u>ESTD16H3</u> Project Management in Environmental Studies or <u>ESTD19H3</u> Risk] <u>ESTD17Y3</u> Cohort Capstone Course in Environmental Studies ESTD18H3 Environmental Studies Seminar Series

### **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 Major Program in Environmental Studies or Minor Program in Natural Sciences and Environmental Management **Breadth Requirements:** 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:** EESA06H3 and an additional 9.5 credits **Exclusion:** EESC34H3

Breadth Requirements: 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 Requirements:** 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 Requirements:** 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: At least 14.5 credits Exclusion: EESD16H3 Breadth Requirements: 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: At least 14.5 credits Exclusion: EESD17Y3 Breadth Requirements: 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 inclass debate. Same as EESD18H3

Prerequisite: At least 14.5 credits Exclusion: EESD18H3 Breadth Requirements: Natural Sciences

## ESTD19H3 - Risk

A practical introduction to the concept of 'risk' as utilized in environmental decision-making. Students are introduced to risk analysis and assessment procedures as applied in business, government, and civil society. Three modules take students from relatively simple determinations of risk (e.g., infrastructure flooding) towards more complex, realworld, inclusive considerations (e.g., ecosystem impacts of climate change).

**Prerequisite:** 14.5 credits and STAB22H3 (or equivalent) **Breadth Requirements:** Natural Sciences

## **Food Studies**

#### **Faculty List**

- D. Bender, M.A., Ph.D. (New York), Professor
- <u>M. Ekers</u>, B.Sc., (Lakehead), M.E.S. (York), Ph.D. (Oxford), Assistant Professor (Department of Human Geography)
- <u>R. Fulthorpe</u>, B.Sc., M.Sc. (Toronto), Ph.D. (Carlton), Professor (Department of Physical and Environmental Sciences)
- D. Gabaccia, M.A., Ph.D. (Michigan), Professor
- R. Halpern, M.A. (Wisconsin), Ph.D. (Pennsylvania), Professor
- F. lacovetta, M.A., Ph.D. (York), Professor
- <u>M. Isaac</u>, Ph.D. (Toronto), Associate Professor (Department of Physical and Environmental Sciences)
- R. Isakson, Ph.D. (Massachusetts, Amherst), Assistant Professor (Centre for Critical Development Studies)
- <u>H. Kronzucker</u>, B.A., B.Sc., M.D. (Wuerzburg/British Columbia), Ph.D. (British Columbia), Professor (Department of Biological Sciences)
- <u>K. MacDonald, B.A., M.A., Ph.D.</u> (Waterloo), Associate Professor (Department of Human Geography)
- L. Mortensen, B.A. (Cornell), M.A., Ph.D. (Indiana), Assistant Professor (Department of Anthropology)
- J. Pilcher, M.A. (New Mexico), Ph.D. (Texas Christian), Professor
- J. Sharma, M.A. (Delhi), M.Phil. (Delhi), Ph.D. (Cambridge), Associate Professor

Food Studies is an interdisciplinary field dedicated to understanding where our food comes from and how it shapes our bodies and identities. The program focuses on five basic themes: food systems, cultures, industries, health, and the environment, while drawing from a number of disciplinary methodologies. 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.

Particular attention will be given to the material nature of food, the way it tastes and smells, and the changes caused by cooking, preservation, and rotting. Tutorials and seminars will meet in the Culinaria Kitchen Laboratory (SW313) to provide experiential learning and small group discussion.

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.

Food Studies provides both theoretical understanding and practical knowledge for professional careers in health care, business, communications, government service, non-governmental organizations, teaching, and community programs.

For updates and detailed information regarding Food Studies please visit the program website at: <a href="http://www.utsc.utoronto.ca/~humdiv/prg\_fs.html">www.utsc.utoronto.ca/~humdiv/prg\_fs.html</a>
### Food Studies Courses Table:

A-level	B-level	C-level	D-level
FSTA01H3 Foods That Changed the World	<u>ANTB64H3</u> The Anthropology of Food <u>BIOB38H3</u> Plants and Society <u>EESB16H3</u> Feeding Humans – the Cost to the Plant <u>FSTB01H3</u> Introduction to Food Studies <u>GASB74H3/HISB74H3</u> Asian Foods and Global Cities <u>HISB14H3</u> Edible History: History of Global Foodways <u>HISB37H3</u> History of Mexico	<u>FSTC02H3</u> Mondo Vino <u>HISC04H3</u> Drink in History <u>HISC05H3</u> Feeding the City, from Babylon to Brampton <u>HISC29H3</u> Global Commodities: Nature, Culture, History <u>IDSC14H3</u> The Political Economy of Food <u>WSTC24H3</u> Gender in the Kitchen	<u>FSTD10H3</u> Food Writing and Photography <u>GASD71H3</u> Cuisine, Culture, and Societies Across Global Asia* <u>HISD70H3</u> History of Empire and Foods* <u>HISD71H3</u> Culinary Ethnography* <u>HISD72H3</u> History of Beer and Brewing* <u>HISD73H3</u> Engendering Canadian Food History

Notes:

1. Courses marked with an \* are taught in the Culinaria Kitchen Laboratory.

2. Students are advised to consult the prerequisites for B-, C-, and D-level courses when planning their individual program.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **Food Studies Programs**

## MINOR PROGRAM IN FOOD STUDIES (ARTS)

Undergraduate Advisor: 416-287-7184 Email: fst-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 at the C- or D-level

### 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**

# FSTA01H3 - Foods That Changed the World

This course introduces students to university-level skills through an exploration of the connections between food, environment, culture, religion, and society. Using a food biography perspective, it critically examines ecological, material, and political foundations of the global food system and how food practices affect raced, classed, gendered, and national identities.

Breadth Requirements: Social & Behavioural Sciences

# 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 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 Requirements:** History, Philosophy & Cultural Studies

# FSTC02H3 - Mondo Vino: The History and Culture of Wine Around the World

This course explores the history of wine making and consumption around the world, linking it to local, regional, and national cultures.

**Recommended Preparation:** At least 1.0 credit at the B-level or higher in FST courses

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students in the Food Studies Minor program.

# FSTD10H3 - Food Writing and Photography

This course introduces students to a range of writing about food and culture, exposing them to different genres and disciplines, and assisting them to experiment with and develop their own prose. It also prompts students to think about photography and visual culture as both tools for documenting culinary practices and experiences, and as increasingly important adjuncts to contemporary food writing. The course is designed as a capstone offering in Food Studies, and as such, asks students to draw on their own expertise and awareness of food as a cultural vehicle to write in a compelling way about social dynamics, historical meaning, and - drawing specifically on the Scarborough experience - the diasporic imaginary.

### Prerequisite: FSTB01H3

**Breadth Requirements:** Arts, Literature & Language **Note:** Priority will be given to students enrolled in the Minor program in Food Studies. Additional students will be admitted as space permits.

# French

### **Faculty List**

- <u>C. Beauquis</u>, 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
- <u>S. Drouin</u>, Ph.D. (Laval & Versailles/Saint-Quentin-en-Yvelines), Assistant Professor
- J. English, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- <u>K. McCrindle</u>, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream
- <u>S. Mittler</u>, 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

Interim Director: Professor Sandra Bamford (until June 30, 2019) (<u>cfldirector@utsc.utoronto.ca</u>) Associate Director: Jeri English (<u>jeri.english@utoronto.ca</u>)

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 (<u>FREB08H3</u>, <u>FREB17H3</u>, <u>FREB44H3</u>, <u>FREC18H3</u>); the study of how the language is structured (<u>FREB45H3</u>, <u>FREC46H3</u>, <u>FREC47H3</u>); the development of approaches to the teaching of French (<u>FREB11H3</u>, <u>FREB20H3</u>, <u>FREC11H3</u>); and the exploration of the rich literatures and cultures of French Canada, France and other parts of the francophone world (<u>FREB22H3</u>, <u>FREB35H3</u>, <u>FREB70H3</u>, <u>FREC54H3</u>, <u>FREC63H3</u>).

The following Programs are offered at University of Toronto Scarborough: the Specialist Program in French, the Major Program in French, and the Minor Program in French.

#### Guidelines for course selection

French programs normally begin with <u>FREA01H3</u> Language Practice I, which serves to consolidate previous knowledge, and is the prerequisite for more advanced courses in all areas. <u>FREA01H3</u> is designed primarily for students with Grade 12 French or equivalent competence. However, all students who are registering for French courses for the first time at University of Toronto **must** first consult the French Language Self-Assessment questionnaire below to determine their level of study before registering for their first French course at UTSC.

Students' level of proficiency will be further assessed by the course instructor during the first week of classes and will be monitored throughout the term. If the course instructor feels that a student's proficiency is not appropriate for the level of the class (whether too high or too low), they will have the student removed from the class.

Note that the Language Practice courses <u>FREA01H3</u> and <u>FREA02H3</u>, <u>FREB01H3</u> and <u>FREB02H3</u>, <u>FREC01H3</u> and <u>FREC02H3</u>, and <u>FRED01H3</u> and <u>FRED06H3</u> 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 the Associate Director for further advice about course selection and Programs.

The statements below reflect the majority of scenarios students present with respect to their current level of French. Students should find the scenario that closest relates to them and enroll in the appropriate course on ROSI/ACORN when the enrollment period opens.

Which statement best describes you?	You should enroll in:
I have received absolutely no formal education in French and I do not speak a word of French	FREA96H3
I have completed Grade 9 core French	FREA97H3
I have completed Grade 10 core French	FREA98H3
I have completed Grade 11 core French	FREA99H3
I have completed Grade 12 core French	FREA01H3
I have completed Grade 9, 10, or 11 French Immersion or Extended French	FREA01H3
I have taken a CEFR-based proficiency exam (like the DELF or the TCF) and I am certified at the international A1 level	FREA01H3
I have completed up to Grade 12 French Immersion or Extended French	FREB01H3
I have taken a CEFR-based proficiency exam (like the DELF or the TCF) and I am certified at the international A2 level	FREB01H3
I do not speak French at home, but I have completed my schooling in a Francophone School up to Grade 12	FREC01H3
I speak French at home with my family, but I did not do my schooling in a Francophone school	FREC01H3
I have taken a CEFR-based proficiency exam (like the DELF or the TCF) and I am certified at the international B1 level	FREC01H3
I was raised in a Francophone country, I speak French at home and I and did my schooling (Kindergarten to Grade 12, or the equivalent) in a Francophone school	FRED01H3
I have taken a CEFR-based proficiency exam (like the DELF or the TCF) and I am certified at the international B2, C1 or C2 level	Please contact the Associate Director for assistance (jeri.english@utoronto.ca)

Please consult with the Associate Director 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. Please also note that students should begin their French studies in the Fall semester, with the course that best corresponds to their level.

Students of French have the opportunity to earn academic credit while studying in another province or country. For further information about this opportunity and about Letters of Permission, please visit the Studying at Other Universities <u>website</u>, 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 postgraduate study, they may be assisted by a notation of language proficiency. The Language Citation provides that notation. See section 6A.5 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.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *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 credit must be at the D-level:

 1. 4.0 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 V

 FRED01H3
 Language Practice VI

 FRED01H3
 Language Practice VIII: Written French

 FRED06H3
 Language Practice VIII: Oral French

 FRED06H3
 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:

FREB08H3Practical Translation IFREB44H3Introduction to Linguistics: French Phonetics and Phonology (taught in French)FREB45H3Introduction to Linguistics: French Morphology and Syntax (taught in French)FREB46H3History of the French Language (taught in French)FREC12H3Semantics: The Study of Meaning (taught in English)FREC46H3Syntax II (taught in English)FREC47H3Pidgin and Creole Languages (taught in English)FREC48H3Sociolinguistics of French (taught in French)(FRED49H3)French Semantics

#### 3. 1.5 credits selected from:

FREB22H3The Society and Culture of QuébecFREB27H3Modern FranceFREB28H3The Francophone WorldFREB70H3Cinema of the French-Speaking WorldFREB84H3Folktale, Myth and the Fantastic in the French-Speaking WorldFREC54H3Paris Through the AgesFREC83H3Cultural Identities and Stereotypes in the French-Speaking World

#### 4. 3.0 credits in literature which must include:

 FREB50H3
 Introduction to French Literature I

 FREB35H3
 Francophone Literature

 and
 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

 and
 1.0 credit in French Literature, selected from the following:

 FRED14H3
 Advanced Topics in the Literature of Québec

 and
 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 Ancien 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.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN FRENCH (ARTS)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in French is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to French upon graduation.

In addition to their academic course requirements, student must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry to the program are 4.0 credits, including <u>FREA01H3</u> and <u>FREA02H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office. (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in French.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in French and have completed at least 9.0 credits including, <u>FREB01H3</u> and <u>FREB02H3</u>. In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

- 1. COPD01H3 Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC
- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term

- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This, in turn, requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.

### **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: <u>FREA01H3</u> Language Practice I <u>FREA02H3</u> Language Practice II <u>FREB01H3</u> Language Practice III <u>FREB02H3</u> Language Practice IV <u>FREC01H3</u> Language Practice V <u>FREC02H3</u> Language Practice VI <u>FRED01H3</u> Language Practice VII: Written 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: <u>FREB08H3</u> Practical Translation I <u>FREB44H3</u> Introduction to Linguistics: French Phonetics and Phonology <u>FREB45H3</u> Introduction to Linguistics: French Morphology and Syntax <u>FREB46H3</u> History of the French Language <u>FREC48H3</u> Sociolinguistics of French

Linguistics courses taught in English are: <u>FREC12H3</u> Semantics: The Study of Meaning <u>FREC46H3</u> Syntax II <u>FREC47H3</u> Pidgin and Creole Languages

#### 3. 1.0 credit in Culture:

Culture courses are: <u>FREB22H3</u> The Society and Culture of Québec <u>FREB27H3</u> Modern France <u>FREB28H3</u> The Francophone World <u>FREB70H3</u> Cinema of the French-Speaking World <u>FREB84H3</u> Folktale, Myth and the Fantastic in the French-Speaking World <u>FREC54H3</u> Paris Through the Ages <u>FREC83H3</u> Cultural Identities and Stereotypes in the French-Speaking World

#### 4. 2.5 additional credits in French as follows:

 FREB50H3
 Introduction to Literature in French I

 and
 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

 FRED14H3
 Advanced Topics in the Literature of Québec

1.0 credit in French courses not already taken

Note: At the A-level, only <u>FREA01H3</u> and <u>FREA02H3</u> may be counted towards a French Program.

Note: For Co-op opportunities related to the Major Program in French please see the <u>Humanities and Social Sciences Co-operative</u> section in this *Calendar*.

Note: Major students cannot obtain more than 0.5 credit (out of 8.0 credits) by taking a course taught in English.

## MAJOR (CO-OPERATIVE) PROGRAM IN FRENCH (ARTS)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in French is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to French upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including FREA01H3 and FREA02H3, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in French.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in French and have completed at least 9.0 credits, including <u>FREB01H3</u> and <u>FREB02H3</u>. In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC - Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. COPD03H3 – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term

4. COPD12H3 - Integrating Your Work Term Experience Part I

- Prerequisite: COPD11H3 and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete a least one of their required work terms in either a Fall or Winter session. This, in turn, requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.

### **MINOR PROGRAM IN FRENCH (ARTS)**

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

#### **Program Requirements**

1. Students must complete 4.0 credits including:

<u>FREA01H3</u> Language Practice I <u>FREA02H3</u> Language Practice II <u>FREB01H3</u> Language Practice III <u>FREB02H3</u> Language Practice IV

2. An additional 2.0 credits in French, 1.0 credit of which must be at the C-level.

Note: At the A-level, only <u>FREA01H3</u> and <u>FREA02H3</u> may be counted towards the program completion requirements.

### **French Courses**

### FREA01H3 - Language Practice I

Reinforcement and development of the language skills understanding, reading, writing and speaking - necessary for higherlevel 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: Native or near-native fluency in French, (FSL161Y), (FSL181Y), FSL221Y

Breadth Requirements: 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 Requirements: Arts, Literature & Language Note: FREA02H3 is a prerequisite for all B-level French courses

## FREA90Y3 - Intensive Introductory French

This course is for students with no prior knowledge of French. Based on a communicative approach, it will help students learn French vocabulary, understand grammatical structures and concepts, and gain oral and written communication skills. Students will develop their listening, speaking, reading and writing skills through a variety of contextually specific activities. Class periods will include explanations of grammatical concepts, as well as communicative and interactive exercises. In addition to preparation at home, regular class attendance is paramount for student success.

# **Exclusion:** (LGGA21H3), (LGGA22H3), (LGGB23H3), (LGGB24H3), FREA96H3, FREA97H3, [FSL100H1 or equivalent], or any prior knowledge of French

**Breadth Requirements:** Arts, Literature & Language **Note:** 1. This course does not satisfy any French program requirements. It is a 6 week, 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute. Students will be expected to attend up to 12 hours of class per week.

2. Priority will be given to students in the Specialist Co-op program in Management and International Business (MIB),

Specialist/Specialist Co-op and Major/Major Co-op programs in Linguistics, and Specialist Co-op programs in International Development Studies (both BA and BSc).

## FREA91Y3 - Intensive Intermediate French

This course is for students who have studied some French in high school or who have some prior knowledge of French, and who wish to bring their proficiency up to the level required for UTSC French programs. Students will continue to improve their listening, speaking, reading and writing skills through a variety of contextually specific activities. Class periods will include explanations of grammatical concepts, as well as communicative and interactive exercises. In addition to preparation at home, regular class attendance is paramount in order to succeed in the class.

#### Prerequisite: FREA90Y3 or FREA97H3

Exclusion: FREA98H3, FREA99H3, [LGGB23H3 or equivalent], or FSL121Y1

**Breadth Requirements:** Arts, Literature & Language **Note:** 1.This course does not satisfy any French program requirements. Students who complete this course may continue into FREA01H3. This is a 6 week, 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute. Students will be expected to attend up to 12 hours of class per week.

2. Priority will be given to students in the Specialist program in Management and International Business (MIB), Specialist/Specialist Co-op and Major/Major Co-op programs in Linguistics, and Specialist Co-op programs in International Development Studies (both BA and BSc).

## 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 Requirements: Arts, Literature & Language

## FREA97H3 - Introductory French II

An intensive course in written and spoken French; a continuation of  $\ensuremath{\mathsf{FREA96H3}}$ 

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 Requirements: 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 Requirements: Arts, Literature & Language 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 Requirements: 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 Requirements: 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 Requirements: 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 and FREA02H3] or equivalent. Exclusion: Native proficiency. FREB08H3 may not be taken after or concurrently with FREC18H3, FRE480Y or FRE481Y. Breadth Requirements: 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 and FREA02H3] or equivalent. **Breadth Requirements:** 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 and FREA02H3] or equivalent **Breadth Requirements:** 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 and FREA02H3] or equivalent. Exclusion: FSL366H Breadth Requirements: 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 and FREA02H3] or equivalent. Exclusion: FRE385H Breadth Requirements: 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 and FREA02H3] or equivalent. **Breadth Requirements:** 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 and FREA02H3] or equivalent. **Breadth Requirements:** History, Philosophy & Cultural Studies

## 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, decolonization and multilinguism.

Prerequisite: [FREA01H3 and FREA02H3] or equivalent. Exclusion: FSL362Y Breadth Requirements: 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 and FREA02H3] or equivalent. Exclusion: FRE332H Breadth Requirements: Arts, Literature & Language

### FREB36H3 - The 20th Century Quebec 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 and FREA02H3 Exclusion: FRE210Y Breadth Requirements: Arts, Literature & Language

## FREB37H3 - Contemporary Quebec 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 and FREA02H3 Exclusion: FRE312H Breadth Requirements: 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:** (FRE272Y), FRE272H, FRE274H **Breadth Requirements:** 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: (FRE272Y), FRE272H, FRE274H Breadth Requirements: 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 Requirements: 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: FREB01H3 Exclusion: FRE240Y Breadth Requirements: 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 and FREA02H3] or equivalent. Exclusion: FRE250Y Breadth Requirements: 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 and FREA02H3] or equivalent. Exclusion: FRE250Y Breadth Requirements: 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 and FREA02H3 or equivalent. Breadth Requirements: Arts, Literature & Language

# FREB84H3 - Folktale, 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 and FREA02H3] or equivalent. **Breadth Requirements:** 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 and FREB02H3] or equivalent. **Exclusion:** (FSL361Y), (FSL382H), (FSL383H), FSL421Y, FSL431Y or equivalent. **Breadth Requirements:** Arts, Literature & Language

### FREC02H3 - Language Practice VI

A continuation of FREC01H3.

Prerequisite: FREC01H3 Exclusion: (FSL361Y), (FSL382H), (FSL383H), FSL421Y, FSL431Y or equivalent Breadth Requirements: Arts, Literature & Language

# FREC03H3 - French in Action I: Practical Workshop in Theatre

This is a practical application of French in which students engage in writing and performing their own short play. Students will study French and Québécois plays, participate in acting and improvisation workshops, engage in a collaborative writing assignment, rehearse and produce their play and create a promotional poster. The final project for the course is a performance of the play.

Prerequisite: FREB02H3 and FREB50H3 Enrolment Limits: 15

**Breadth Requirements:** Arts, Literature & Language **Note:** Students will meet the professors during the first week of class to have their French oral proficiency assessed. Students who are not at the appropriate level may be removed from the course.

# 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]] and FREB11H3 Exclusion: FRE384H Breadth Requirements: 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 Requirements: 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 and FREB02H3] and [FREB08H3 or (FREB09H3)] or equivalent. Exclusion: FREC18H3 may not be taken after or concurrently with FRE480Y or FRE481Y. Breadth Requirements: Arts, Literature & Language

### FREC38H3 - Topics in the Literature of Quebec

This course considers how Québec's literature, especially the novel, has changed since 1980. It focuses on the literary forms of the novel, the dialogues between novels and texts from different literatures (Anglo-Canadian, French, American), and various elements related to the contemporary or the postmodern.

Prerequisite: FREB50H3 or equivalent. Breadth Requirements: Arts, Literature & Language

### FREC46H3 - 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 Requirements: 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 sociohistorical discussion. Same as LINC47H3 Taught in English

Prerequisite: [LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3] Exclusion: LINC47H3 Breadth Requirements: 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 equivalent] and [one of FREB44H3, FREB45H3, FREB46H3] Exclusion: LINB20H3, ( LINB21H3) Breadth Requirements: 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 Requirements:** 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 Requirements: Arts, Literature & Language

### FREC58H3 - Literature of the Ancien Regime

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 Requirements: Arts, Literature & Language An examination of the trends and attitudes embodied in travel writing from the early 20th century to now. The course considers aspects of exoticism, imperialism and ethnography as well as more contemporary cultural tourism, heritage and memory tourism, ecotourism etc. Selections are drawn from commentators such as Gide, Camus, Kessel, Hubler and Belkaïd.

Prerequisite: [[ FREB01H3 and FREB02H3] and [ FREB50H3 or equivalent]] Breadth Requirements: 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 Requirements: 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 and FREB02H3] or equivalent, and one of FREB22H3, FREB27H3 and FREB28H3 or equivalent. **Breadth Requirements:** 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 Requirements: 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: 1.0 credit at the C-level in FRE courses

## 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: 1.0 credit at the C-level in FRE courses

## 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: 1.0 credit at the C-level in FRE courses

## 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: 1.0 credit at the C-level in FRE courses

## 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: 1.0 credit at the C-level in FRE courses

## 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 Requirements: Arts, Literature & Language

# 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 Requirements:** Arts, Literature & Language

# FRED14H3 - Advanced Topics in the Literature of Quebec

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 culturallydiverse communities based in Québec.

**Prerequisite:** FREB50H3 and [0.5 credit in Quebec literature and 0.5 credit in French literature, one of which must be at the C-level] **Exclusion:** (FRED12H3) **Breadth Requirements:** 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
- <u>M. Buckley</u>, 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
- <u>S. Farber</u>, 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), 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. Narayanareddy, MESc. (Yale University), Ph.D. (Minnesota), Assistant Professor
- E.C. Relph, B.A., M.Phil. (London), Ph.D. (Toronto), Professor Emeritus
- A. Sorensen, B.F.A. (Nova Scotia College of Art and Design), M.Sc., Ph.D. (London), Professor

Acting Chair: T. Kepe (July 1, 2017 to June 30, 2018) 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, Environmental Studies, Health Studies, International Development Studies, Public Policy and Women's and Gender Studies.

### Human Geography Areas of Focus Table:

\*Indicates a course that crosses two areas of focus.

Urban Geography	Social/Cultural Geography	Environmental Geography
GGRB05H3Urban GeographyGGRC10H3Urbanization andDevelopmentGGRC11H3Current Topics in UrbanGeographyGGRC12H3TransportationGeographyGGRC13H3Urban PoliticalGeographyGGRC27H3Location and SpatialDevelopmentGGRC33H3The Toronto RegionGGRC34H3Crowd-sourced UrbanGeographiesGGRC40H3Megacities and GlobalUrbanizationGGRC45H3Local Geographies ofGlobalization*GGRC50H3Geographies of UrbanPovertyGGRC50H3Geographies ofEducation*GGRD14H3Social Justice and theCity*GGRD25H3Research Seminar inUrban Spaces	GGRB13H3 Social Geography GGRB28H3 Geographies of Disease GGRB55H3 Cultural Geography GGRC02H3 Population Geography GGRC09H3 Current Topics in Social Geography GGRC24H3 Socio-Natures and the Cultural Politics of 'The Environment'* GGRC45H3 Local Geographies of Globalization* GGRC49H3 Land, Development, and Struggle in Latin America* GGRC50H3 Geographies of Education* GGRC56H3 Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities GGRD09H3 Feminist Geographies GGRD10H3 Health and Sexuality GGRD14H3 Social Justice and the City* GGRD19H3 Spaces of Multiraciality: Critical Mixed Race Theory	GGRB21H3 Political Ecology: Nature, Society and Environmental Change GGRC21H3 Current Topics in Environmental Geography (GGRC22H3) Political Ecology Theory and Applications GGRC25H3 Land Reform and Development GGRC26H3 Geographies of Environmental Governance GGRC44H3 Environmental Conservation and Sustainable Development GGRD08H3 Research Seminar in Environmental Geography GGRD49H3 Land and Land Conflicts in the Americas*

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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):

<u>GGRA02H3</u> The Geography of Global Processes <u>GGRA03H3</u> Cities and Environments <u>GGRA35H3</u> The Great Scarborough Mashup: People, Place, Community, Experience

### 2. Theory and Concepts in Human Geography (2.5 credits):

<u>GGRB02H3</u> The Logic of Geographical Thought <u>GGRB03H3</u> Writing Geography and 1.5 credits from the following: <u>GGRB05H3</u> Urban Geography <u>GGRB13H3</u> Social Geography <u>GGRB21H3</u> Political Ecology: Nature, Society and Environmental Change <u>GGRB28H3</u> Geographies of Disease <u>GGRB55H3</u> Cultural Geography

#### 3. Methods (2.0 credits): <u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning <u>STAB23H3</u> Introduction to Statistics for the Social Sciences (or equivalent) and 1.0 credit from the following: <u>GGRB30H3</u> Fundamentals of GIS I <u>GGRB32H3</u> Fundamentals of GIS II <u>GGRC31H3</u> 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 <u>GGRA02H3</u>, <u>GGRA03H3</u> or <u>GGRA35H3</u>. Enrollment in <u>GGRA35H3</u> is limited and restricted to first year students. Students are also encouraged to take <u>GGRA30H3</u> 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):

<u>GGRA02H3</u> The Geography of Global Processes <u>GGRA03H3</u> Cities and Environments <u>GGRA35H3</u> The Great Scarborough Mashup: People, Place, Community, Experience

#### 2. Theory and Concepts in Human Geography (2.0 credits):

<u>GGRB02H3</u> The Logic of Geographical Thought and 1.5 credits from the following: <u>GGRB05H3</u> Urban Geography <u>GGRB13H3</u> Social Geography <u>GGRB21H3</u> Political Ecology: Nature, Society and Environmental Change <u>GGRB28H3</u> Geographies of Disease <u>GGRB55H3</u> Cultural Geography

### 3. Methods (1.0 credit from the following):

<u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning <u>GGRB03H3</u> Writing Geography <u>GGRB30H3</u> Fundamentals of GIS I <u>GGRB32H3</u> Fundamentals of GIS II <u>GGRC31H3</u> Qualitative Geographical Methods: Place and Ethnography <u>STAB23H3</u> 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 firs year course selection

EES courses presume a background in physical sciences and mathematics. It is recommended that first year students take <u>EESA01H3</u>, <u>EESA06H3</u>, <u>GGRA02H3</u> and <u>GGRA03H3</u> and at least 1.0 credit from among [<u>BIOA01H3</u> and <u>BIOA02H3</u>], [<u>CHMA10H3</u> and <u>CHMA11H3</u>], [<u>PHYA10H3</u> or <u>PHYA11H3</u>], [<u>MATA30H3</u> and <u>MATA35H3</u>/A36H3/A37H3].

### **Program Requirements**

The Major Program in Physical and Human Geography requires the completion of a total of 8.0 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 as follows:

EESA01H3 Introduction to Environmental Science EESA06H3 Introduction to Planet Earth GGRA02H3 The Geography of Global Processes GGRA03H3 Cities and Environments

#### 2. 1.5 credits from the following:

EESB02H3 Principles of Geomorphology EESB03H3 Principles of Climatology EESB04H3 Principles of Hydrology EESB05H3 Principles of Soil Science EESB15H3 Earth History

### 3. At least 1.5 credits from the following:

<u>CITB01H3</u> Canadian Cities and Planning <u>GGRB02H3</u> The Logic of Geographical Thought <u>GGRB05H3</u> Urban Geography <u>GGRB13H3</u> Social Geography <u>GGRB21H3</u> Political Ecology: Nature, Society and Environmental Change <u>GGRB28H3</u> Geographies of Disease <u>GGRB55H3</u> Cultural Geography

### 4. At least 1.0 credit at the C- or D-level from EES courses

5. At least 1.0 credit at the C- or D-level from GGR or CIT courses

#### 6. At least one additional 0.5 credit from GGR or CIT courses

7. At least one additional 0.5 credit from EES courses

## 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 students to complete 4.0 credits as follows:

#### 1. At least 0.5 credit from the following:

<u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning <u>EESC03H3</u> Geographic Information Systems and Remote Sensing

#### 2. 2.5 credits as follows:

<u>GGRB30H3</u> Fundamentals of GIS I <u>GGRB32H3</u> Fundamentals of GIS II <u>GGRC30H3</u> Advanced GIS <u>GGRC32H3</u> Essential Spatial Analysis <u>GGRD30H3</u> GIS Research Project

#### 3. 1.0 credit from the following:

CSCA20H3 Introduction to Programming <u>CITC18H3</u> Transportation Policy Analysis\* <u>EESC03H3</u> Geographic Information Systems and Remote Sensing (if not used to complete component 1 of the requirements) <u>GGRC12H3</u> Transportation Geography <u>GGRC27H3</u> Location and Spatial Development <u>GGRC34H3</u> Crowd-sourced Urban Geographies <u>CITD01H3</u> City Issues and Strategies\* <u>GGRD01H3</u> Supervised Research Project\* <u>GGRD08H3</u> Research Seminar in Environmental Geography\* <u>GGRD25H3</u> Research Seminar in Urban Spaces\* <u>GGRD31H3</u> Independent Research Project\*

\*Note: 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 -evel 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 credits in Geography including:

**1. 1.0 credit as follows:** <u>GGRA02H3</u> The Geography of Global Processes <u>GGRA03H3</u> Cities and Environments

2. 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

# 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 Requirements: Social & Behavioural Sciences

# GGRB03H3 - Writing Geography

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 Requirements:** 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## GGRB21H3 - Political Ecology: Nature, Society and Environmental Change

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, GGRC22H3 Enrolment Limits: 150 Breadth Requirements: 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 Requirements: 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.

Exclusion: GGR272H, GGR278H Recommended Preparation: GGRA30H3 Enrolment Limits: 150 Breadth Requirements: 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 Requirements: 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 Requirements:** 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; and 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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/( POLC66H3) Enrolment Limits: 60 Breadth Requirements: 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 Requirements: 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 Requirements: 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 IDSB02H3 or ESTB01H3 Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## GGRC26H3 - Geographies of Environmental Governance

This course addresses the translation of environmentalisms 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 Requirements: 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) and [(GGRB02H3 and GGRB05H3) or (CITB01H3 and CITB02H3)] or [[MGEB01H3/(ECMB01H3) or MGEB02H3/(ECMB02H3)] and [MGEB05H3/(ECMB05H3) or MGEB06H3/(ECMB06H3)]] Exclusion: (GGRB27H3), GGR220Y Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

# GGRC28H3 - Indigenous Environmental Knowledges

Examines Indigenous knowledge, world-views, theory, philosophies and values, and their relationship to environmental practice. Students will be introduced to Indigenous knowledge as it pertains to the environment through exposure to Indigenous scholarship and innovative governance practices.

Prerequisite: Any 8.0 credits Exclusion: ABS402H Recommended Preparation: GGRB13H3 Breadth Requirements: 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 threedimensional surfaces, build geospatial models, visualize geospatial data, and perform advanced spatial analysis. Lectures introduce concepts and labs implement them.

Prerequisite: GGRB32H3 Exclusion: GGR373H Enrolment Limits: 60 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 webbased 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 Requirements: 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 Requirements: 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 Requirements: 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 Exclusion: GGR233Y, (GGRB20H3) Recommended Preparation: GGRB21H3 or IDSB02H3 or ESTB01H3 Enrolment Limits: 80 Breadth Requirements: Social & Behavioural Sciences

# 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 Requirements: 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 Requirements: 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 Requirements: 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. **Breadth Requirements:** Social & Behavioural Sciences

## GGRC56H3 - Spaces of Travel: Unsettling Migration, Tourism, and Everyday Mobilities

Cultural Politics and political economy of travel and mobilities across time and space. Covers migration and immigration, tourism and travel encounters, diaspora and displacement, religious missions and pilgrimages, study abroad and working holiday, transportation and communication technologies, and narratives of time travel. Addresses how these extraordinary and everyday mobilities and immobilities inform geographies of race, gender, sexuality, and nation. Area of focus: Social/Cultural Geography

Prerequisite: Any 8.0 credits Recommended Preparation: GGRB13H3 or CITB02H3 or SOCB60H3 Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## GGRD01H3 - Supervised Research Project

An independent studies course open only to students in the Major Program in Human Geography. An independent studies project will be carried out under the supervision of an individual faculty member.

**Prerequisite:** 13.0 credits including GGRB02H3

# GGRD08H3 - Research Seminar in Environmental Geography

Designed for final-year Human Geography Majors, this seminar is devoted to analysis and discussion of advanced theoretical and methodological issues in Environmental Geography. Specific content will vary from year to year. Seminar format with active student participation.

Area of focus: Environmental Geography

Prerequisite: 13.0 credits including GGRB21H3 Enrolment Limits: 20 Breadth Requirements: Social & Behavioural Sciences

# **GGRD09H3 - Feminist Geographies**

How do gender relations shape different spaces? We will explore how feminist geographers have approached these questions from a variety of scales - from the home, to the body, to the classroom, to the city, to the nation, drawing on the work of feminist geographers. Area of focus: Social/Cultural Geography

Prerequisite: 13.0 credits including [ GGRB13H3 or CITB02H3 or WSTB05H3] Enrolment Limits: 20 Breadth Requirements: Social & Behavioural Sciences

# **GGRD10H3 - Health and Sexuality**

Examines links between health and human sexuality. Particularly explores sexually transmitted infections. Attention will be given to the socially and therefore spatially constructed nature of sexuality. Other themes include sexual violence, masculinities and health, reproductive health, and transnational relationships and health. Examples will be taken from a variety of countries. Area of focus: Social/Cultural Geography

Prerequisite: 13.0 credits including [GGRB13H3 or IDSB04H3 or WSTB05H3] Enrolment Limits: 20 Breadth Requirements: Social & Behavioural Sciences

# 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 Requirements:** 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

# GGRD14H3 - 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 IDSB06H3] **Enrolment Limits:** 20 **Breadth Requirements:** Social & Behavioural Sciences

## GGRD19H3 - Spaces of Multiraciality: 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: Social & Behavioural Sciences

# GGRD49H3 - Land and Land Conflicts in the Americas

The politics of land and territorial struggles are central themes in national and international development policies, and social movements in the Western Hemisphere. Similarly, settler colonialism, as an active spatial formation, is constituted in both the past and present throughout the Americas. The course will take a hemispheric approach to understanding the historical and contemporary geographies of land and natural resource conflicts in the Americas. Students will become familiar with geographic debates and conceptualizations of land and land conflicts, and will participate in field visits aimed to ground theoretical understandings in land practices and movements in Toronto. Areas of focus: Environmental or Social/Cultural

Areas of focus: Environmental or Social/Cultural Geography

Prerequisite: 13.0 credits including GGRB02H3 Exclusion: (GGRC49H3) Recommended Preparation: GGRB13H3 or GGRB21H3 or IDSA01H3 Enrolment Limits: 20 Breadth Requirements: 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
- <u>B. Raman</u>, 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 enables students to intensively study Asia as part of a dynamic global and diasporic context in the past and present. Students learn cutting-edge Humanities methods and theories from a range of different disciplines. The program links the academic study of Asia to Toronto's vibrant Asian communities through exciting co- and extra-curricular programming that nurtures socially responsible and educationally rigorous experiential learning. It incorporates various thematic interests such as the study of gender, diasporas and migration, religion, development, nationalism in contexts as different as mainland China and Tamil worlds.

The curriculum combines a variety of approaches. The first year A-level courses <u>GASA01H3/HISA06H3</u> and <u>GASA02H3</u> 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 <u>GASB57H3/HISB57H3</u>.

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 <u>GASC20H3</u>. 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 <u>GASD01H3</u>. 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. Students should get the Program Director's written approval before taking any languages courses offered outside UTSC. The language study requirement is waived in specific cases.

#### Guidelines for first year course selection

Students who intend to complete a Global Asia Studies Program should include <u>GASA01H3/HISA06H3</u> or <u>GASA02H3</u> in their first year course selection.

For updates and detailed information regarding Global Asia Studies please visit the Historical and Cultural Studies <u>website</u>.

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

# **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 as follows:

GASA01H3/ HISA06H3 Introducing Global Asia and its Histories or

GASA02H3 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 upperlevel 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.

### 1. 0.5 credit as follows:

<u>GASA01H3</u>/<u>HISA06H3</u> 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 credit 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 credit should be 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.

### 1. 0.5 credit as follows:

<u>GASA01H3</u>/ <u>HISA06H3</u> Introducing Global Asia and its Histories or <u>GASA02H3</u> 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 Requirements:** 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 Requirements: Arts, Literature & Language

## GASB05H3 - Media and Globalization

This course examines the role of technological and cultural networks in mediating and facilitating the social, economic and political processes of globalization. Key themes include imperialism, militarization, global political economy, activitsm, and emerging media technologies. Particular attention is paid to cultures of media production and reception outside of North America. Same as MDSB05H3

**Prerequisite:** 4.0 credits and MDSA01H3 **Exclusion:** MDSB05H3 **Breadth Requirements:** 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 Requirements: Arts, Literature & Language

## GASB20H3 - Gender and Social Institutions in Asia

This course examines the role of gender in shaping social institutions in Asia.

**Breadth Requirements:** 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

# GASB53H3 - 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 and Asia Area

**Exclusion:** HISB53H3 **Breadth Requirements:** 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 Requirements:** 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. Same as HISB58H3

Prerequisite: Any 2.0 credits Exclusion: HIS280Y, HISB58H3 Recommended Preparation: 0.5 credit at the A-level in HIS or GAS courses Breadth Requirements: 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 GASA01H3 Exclusion: VPHB73H3, FAH261H Breadth Requirements: Arts, Literature & Language

### GASB74H3 - Asian Foods and Global Cities

This course explores the social circulation of Asianidentified foods and beverages using research from geographers, anthropologists, sociologists, and historians to understand their changing roles in ethnic entrepreneurdominated cityscapes of London, Toronto, Singapore, Hong Kong, and New York. Foods under study include biryani, curry, coffee, dumplings, hoppers, roti, and tea. Same as HISB74H3

**Exclusion:** HISB74H3 Breadth Requirements: Social & Behavioural Sciences

## 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 GASA01H3 Breadth Requirements: Arts, Literature & Language

## 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: 8.0 credits, including 0.5 credit at the Alevel, and 1.0 credit at the B-level in AFS, CLA, FST, GAS, HIS, or WST courses

Recommended Preparation: GASA01H3 or GASA02H3 Enrolment Limits: 50

Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 worldviews, aesthetics, ethical norms, folk beliefs, and other socio-cultural aspects in China, Hong Kong, Taiwan, Korea, and Japan.

**Prerequisite:** Any 4.0 credits **Breadth Requirements:** 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: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: HISC56H3 Recommended Preparation: GASB58H3/ HISB58H3 Enrolment Limits: 40 Breadth Requirements: 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 Requirements:** 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. Same as HISC57H3

Prerequisite: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: HISC57H3 Recommended Preparation: GASB58H3/ HISB58H3 Enrolment Limits: 40 Breadth Requirements: 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.

#### Same as HISC59H3

**Prerequisite:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses

Exclusion: HISC59H3, (GASB54H3), (HISB54H3) Recommended Preparation: GASB57H3/HISB57H3 Breadth Requirements: 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 selfrenovation 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 Requirements:** 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:** Any 8.0 credits, including [0.5 at the A- or B-level in AFS, CLA, FST, GAS, HIS or WST courses] and [0.5 credit at the C-level in AFS, CLA, FST, GAS, HIS or WST courses]

#### Enrolment Limits: 15

**Note:** Topics vary from year to year. Check the website: <u>www.utsc.utoronto.ca/~hcs/programs/global-asia-</u><u>studies.html</u> 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, postcolonialism, 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:<u>www.utsc.utoronto.ca/~hcs/programs/global-asia-</u>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 Requirements:** History, Philosophy & Cultural Studies

**Note:** Topics vary from year to year. Check the website: <u>www.utsc.utoronto.ca/~hcs/programs/global-asia-</u><u>studies.html</u> 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

Prerequisite: Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] Exclusion: HISD06H3 Enrolment Limits: 15 Breadth Requirements: 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 Note: Topics vary from year to year. Check the Global Asia Studies website at http://www.utsc.utoronto.ca/~hcs/programs/global-asiastudies.html for current offerings.

## GASD30H3 - Alien/Asian: Techno-Orientalism and Global Asian Futurity

This course examines how popular culture projects its fantasies and fears about the future onto Asia through sexualized and racialized technology. Through the lens of techno-Orientalism this course explores questions of colonialism, imperialism and globalization in relation to cyborgs, digital industry, high-tech labor, and internet/media economics. Topics include the hypersexuality of Asian women, racialized and sexualized trauma and disability. This course requires student engagement and participation. Students are required to watch films in class, and creative assignments such as filmmaking and digital projects are encouraged. Same as WSTD30H3

Prerequisite: 1.0 credit at the B-level and 1.0 credit at the C-level in WST courses or other Humanities and Social Sciences courses Exclusion: WSTD30H3 Enrolment Limits: 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students enrolled in the Major and Minor programs Women's and Gender Studies, and the Specialist/Major and Minor programs in Global Asia Studies. Additional students will be admitted as space permits.

## 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 <u>www.utsc.utoronto.ca/~hcs/programs/global-asia-</u><u>studies.html</u> 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 longlasting 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

Exclusion: HISD56H3

**Breadth Requirements:** 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. Same as HISD58H3

**Prerequisite:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] **Exclusion:** HISD58H3 **Recommended Preparation:** GASB58H3/ HISB58H3 or GASC57H3/ HISC57H3

Enrolment Limits: 15

**Breadth Requirements:** 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. Same as HISD59H3

Prerequisite: Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] Exclusion: HISD59H3 Recommended Preparation: GASB58H3/ HISB58H3 or GASC57H3/ HISC57H3 Enrolment Limits: 15 Breadth Requirements: 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 Requirements: History, Philosophy & Cultural Studies

## **Health Studies**

#### **Faculty List**

- L. Bisaillon, B.A. (Bishop's University), M.PI. (McGill), Ph.D. (Ottawa), Assistant Professor
- H. Brown, B.A. (Queen's), M.Sc. (Queen's), Ph.D. (Western), Assistant Professor
- A. Charise, B.A., B.Sc. (McMaster), M.A. (Western), Ph.D. (Toronto), Assistant Professor
- <u>O. Ezezika</u>, B.Sc. (University of Lagos), Ph.D. (University of Georgia), M. Env. Management (Yale), Assistant Professor, Teaching Stream
- S.R. Sicchia, M.H.Sc. (Toronto), M.Sc.(Toronto), Ph.D., (Toronto), Assistant Professor, Teaching Stream
- <u>M. Silver</u>, 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
- <u>H. Wardlow</u>, B.A. (Yale), MPH (Emory), Ph.D. (Emory), Professor

Interim Director: H. Wardlow, Email: <u>ichs-director@utsc.utoronto.ca</u> Program Advisor: J. Roopnarinesingh, Email: <u>health-studies-advisor@utsc.utoronto.ca</u> Fourth Year Student Advisor: S. Sicchia, Email: <u>suzanne.sicchia@utoronto.ca</u>

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 (B.Sc.), 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 (B.A.), 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.

The Minor in Health Studies is suspended to new enrolments. Students who are already enrolled in the Program should consult the 2012-13 *Calendar*.

#### 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 (B.Sc.) and Major/Major Co-op programs in Health Studies - Health Policy (B.A.) 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, <u>STAB27H3</u>.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## Health Studies Programs

## MAJOR PROGRAM IN HEALTH STUDIES - HEALTH POLICY (ARTS)

### **Program Requirements**

This program requires the completion of 8.0 credits, as described below.

### CORE (5.5 Credits)

### 1. 1.0 credit at A-level:

<u>HLTA02H3</u> Foundations of Health Studies I <u>HLTA03H3</u> 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 or STAB23H3 Introduction to Statistics for the Social Sciences]

### 3. 1.5 credits as follows:

<u>HLTB15H3</u> Introduction to Health Research Methodology <u>HLTB40H3</u> Health Policy and Health Systems [<u>ANTC67H3</u> Foundations in Epidemiology or <u>HLTC27H3</u> Community Health and 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:

<u>GGRB28H3</u> Geographies of Disease <u>HLTB11H3</u> Basic Human Nutrition (if not used towards requirement 5) <u>HLTB20H3</u> Contemporary Human Evolution and Variation (if not used towards requirement 5) <u>HLTB42H3</u> Perspectives of Culture, Illness and Healing <u>IDSB04H3</u> 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 HLTC02H3 Gender and Health HLTC04H3 Critical Qualitative Health Research Methods HLTC16H3 Introduction to Health Information Systems HLTC17H3 Introduction to Rehabilitation Sciences HLTC19H3 Chronic Diseases 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 HLTC46H3 Globalization, Gender and Health HLTC47H3 Special Topics in Health Studies

HLTC48H3 Special Topics in Health Studies

HLTC49H3 Indigenous Health

<u>HLTC50H3</u> The Human-Animal Interface <u>HLTC51H3</u> Special Topics in Health and Society <u>HLTC52H3</u> Special Topics in Health Humanities <u>HLTD11H3</u> Program and Policy Evaluation <u>IDSC11H3</u> Issues in Global and International Health\* \***Note**: <u>IDSC11H3</u> 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

The Major (Co-op) Program in Health Studies - Health Policy is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Health Policy upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>HLTA02H3</u> and <u>HLTA03H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Health Studies - Health Policy.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Health Studies - Health Policy and have completed at least 9.0 credits, including all of the courses identified in components 1, 2, 3, 5 and 6 of the program requirements.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### **MAJOR PROGRAM IN HEALTH STUDIES - POPULATION HEALTH (SCIENCE)**

#### **Program Requirements**

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 Life on Earth: Unifying Principles] HLTA02H3 Foundations of Health Studies I HLTA03H3 Foundations of Health Studies II

#### 2. 2.5 credits at B-level:

[HLTB11H3 Basic Human Nutrition or <u>BIOB35H3</u> Essentials of Human Physiology] <u>HLTB16H3</u> Introduction to Public Health <u>HLTB22H3</u> Biological Determinants of Health <u>PHLB09H3</u> Biomedical Ethics [STAB22H3 Statistics I or <u>STAB23H3</u> Introduction to Statistics for the Social Sciences]

#### 3. 1.0 credit:

<u>HLTB15H3</u> Introduction to Health Research Methodology [ANTC67H3 Foundations in Epidemiology or <u>HLTC27H3</u> Community Health and 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

<u>HLTB42H3</u> Perspectives of Culture, Illness and Healing <u>HLTB50H3</u> Introduction to Health Humanities

### 6. 0.5 credit at the B-level from the following:

GGRB28H3 Geographies of Disease <u>HLTB20H3</u> Contemporary Human Evolution and Variation <u>HLTB41H3</u> Introduction to the Social Determinants of Health (if not used towards requirement 5) <u>HLTB50H3</u> Introduction to Health Humanities (if not used towards requirement 5) <u>STAB27H3</u> Statistics II

#### 7. 1.5 credits at the C-level from the following:

ANTC68H3 Deconstructing Epidemics HLTC04H3 Critical Qualitative Health Research Methods HLTC16H3 Introduction to Health Information Systems HLTC17H3 Introduction to Rehabilitation Sciences HLTC19H3 Chronic Diseases HLTC22H3 Health, Aging and the Life Cycle HLTC23H3 Issues in Child Health and Development HLTC24H3 Environment and Health HLTC25H3 Infectious Diseases HLTC29H3 Special Topics in Health Studies HLTC29H3 Special Topics in Health Studies HLTC48H3 Special Topics in Health Studies HLTC48H3 Indigenous Health

HLTC51H3 Special Topics in Health and Society

## MAJOR (CO-OPERATIVE) PROGRAM IN HEALTH STUDIES - POPULATION HEALTH (SCIENCE)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Health Studies - Population Health is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Population Health upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>HLTA02H3</u> and <u>HLTA03H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Health Studies - Population Health.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Health Studies - Population Health and have completed at least 9.0 credits, including all of the courses from components 1, 2, 3, 5 and 6 of the program requirements.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### **MINOR PROGRAM IN HEALTH HUMANITIES (ARTS)**

The Minor in Health Humanities provides an interdisciplinary exploration of human health and illness through the methods and materials of the creative arts, humanities, and critical social sciences. Students' understanding of the humanistic, philosophical, historical, and artistic study of health—past and present—will be developed by attending closely to how literature, philosophy, history, and critical social sciences reveal the aesthetic, ethical, and multicultural contexts of health, disability, medical research and policy. This interdisciplinary Minor is open to all undergraduates regardless of major or disciplinary background.

Students will note that some courses at the B-, C-, and D-levels may have additional pre-requisites; therefore, students selecting the Minor as a Subject POSt must choose their courses carefully to ensure that they have the necessary

prerequisites. Permission to count courses indicated by an asterisk (\*) towards the Minor in Health Humanities must be received from the Program Supervisor, and will be granted in cases where the student's work demonstrably engages Health Humanities-related content and/or research methods.

**Note**: Relevant Health Humanities-related courses selected from other academic units and disciplines, not already listed below, may be approved for the Minor in Health Humanities on a case-by-case basis.

#### **Program Requirements**

This program requires the completion of 4.0 credits, as follows:

#### 1. 1.0 credit at the B-level:

<u>HLTB50H3</u> Introduction to Health Humanities <u>PHLB09H3</u> Biomedical Ethics

#### 2. 0.5 credit to be chosen from:

ENGA02H3 Critical Writing about Literature ENGB02H3 Effective Writing in the Sciences

#### 3. At least 1.0 credit at the C or D-level to be chosen from the following\*:

ANTC24H3 Culture, Mental Illness, and Psychiatry ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective <u>ENGC44H3</u> Self and Other in Literature and Film <u>HLTC50H3</u> The Human-Animal Interface <u>WSTC12H3</u> Writing the Self: Global Women's Autobiographies <u>WSTC40H3</u> Gender and Disability <u>ANTD01H3</u> The Body in Culture and Society <u>ANTD10H3</u> The Anthropology of 'Life' Itself <u>ENGD12H3</u> Topics in Life Writing <u>HLTD50H3</u> Special Topics in Health Humanities <u>HLTD51H3</u> Aging and the Arts <u>HLTD52H3</u> Special Topics in Health: Health Histories

#### 4. 1.5 credits to be chosen from the following\*:

ENGA02H3 Critical Writing about Literature (if not used to complete Requirement 2) CTLB03H3 Introduction to Service Learning ENGB12H3 Life Writing ENGB52H3 Literature and Science ENGB74H3 The Body in Literature and Film ENGB02H3 Effective Writing in the Sciences (if not used to complete Requirement 2) HLTB42H3 Perspectives of Culture, Illness and Healing ANTC24H3 Culture, Mental Illness, and Psychiatry (if not used to complete Requirement 3) ANTC61H3 Medical Anthropology: Illness and Healing in Cultural Perspective (if not used to complete Requirement 3) ENGC44H3 Self and Other in Literature and Film (if not used to complete Requirement 3) HLTC50H3 The Human-Animal Interface (if not used to complete Requirement 3) HLTC52H3 Special Topics in Health Humanities WSTC12H3 Writing the Self: Global Women's Autobiographies (if not used to complete Requirement 3) WSTC40H3 Gender and Disability (if not used to complete Requirement 3) ANTD01H3 The Body in Culture and Society (if not used to complete Requirement 3) ANTD10H3 The Anthropology of 'Life' Itself (if not used to complete Requirement 3) ENGD12H3 Topics in Life Writing (if not used to complete Requirement 3) HLTD50H3 Special Topics in Health Humanities (if not used to complete Requirement 3) HLTD51H3 Aging and the Arts (if not used to complete Requirement 3) HLTD52H3 Special Topics in Health: Health Histories (if not used to complete Requirement 3) HLTD53H3 Special Topics in Health Humanities HLTD01H3 Directed Readings in Health Studies

\*Note: these groups of courses engage methods, content, and/or issues relevant to arts and humanities based approaches to health. They provide students with the opportunity to explore more specialized topics related to Health Humanities based on their academic interest and professional aspirations

### **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 Requirements: 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 Requirements: 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 Requirements:** 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 healthrelated 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) Breadth Requirements: 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 Breadth Requirements: 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 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 Requirements: 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]] **Breadth Requirements:** Natural Sciences

# HLTB40H3 - Health Policy and Health Systems

This course focuses on public and private financing mechanisms for health care in Canada, emphasizing provincial differences and discussing the systems in place in other developed nations. Topics will include the forces of market competition and government regulation as well as the impact of health policy on key stakeholders. Students will also learn how to apply simple economic reasoning to examine health policy issues.

Prerequisite: HLTA02H3 and HLTA03H3 Breadth Requirements: Social & Behavioural Sciences

# HLTB41H3 - Introduction to the 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:** HLTA02H3 and HLTA03H3 **Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in Health Studies programs.

## HLTB42H3 - Perspectives of Culture, Illness and Healing

This course introduces students to anthropological perspectives of culture, society, and language, to foster understanding of the ways that health intersects with political, economic, religious and kinship systems. Topics will include ethnographic theory and practice, cultural relivatism, and social and symbolic meanings and practices regarding the body.

**Prerequisite:** HLTA02H3 and HLTA03H3 **Breadth Requirements:** Social & Behavioural Sciences

### HLTB50H3 - 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 Requirements:** 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: HLTB41H3 Breadth Requirements: 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.

Breadth Requirements: Social & Behavioural Sciences

### HLTC16H3 - Introduction to Health Information Systems

An introduction to the fundamental concepts in health informatics (HI) and the relevance of HI to current and future Canadian and international health systems. Students will be introduced to traditional hospitalbased/clinician-based HI systems, as well as present and emerging applications in consumer and public HI, including global applications.

#### Prerequisite: HLTB16H3

**Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

### HLTC17H3 - Introduction to Rehabilitation Sciences

This course will provide students with an introduction to the rehabilitation sciences in the Canadian context. Students will gain knowledge regarding the pressing demographic needs for rehabilitation services and research, as well as the issues affecting the delivery of those services.

#### **Prerequisite:** HLTB16H3 **Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

### HLTC19H3 - Chronic Diseases

This course will introduce students to the regional, national, and global patterns of chronic disease and demonstrate how demography, behaviour, socioeconomic status, and genetics impact patterns of chronic disease in human populations. Using epidemiological studies we will examine these patterns, assess their complex causes, and discuss strategies for broad-based preventative action.

Prerequisite: HLTB22H3 or HLTB41H3 Exclusion: (HLTC07H3), (HLTC21H3) Breadth Requirements: 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 or HLTB41H3 Exclusion: (HLTB01H3) Breadth Requirements: Social & Behavioural Sciences

## 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 or HLTB41H3 Exclusion: (HLTB02H3) Breadth Requirements: 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) Breadth Requirements: Natural Sciences

## HLTC25H3 - Infectious Diseases

Adopting ecological, epidemiological, and social approaches, this course examines the impact of infectious disease on human populations. Topics covered include disease ecology, zoonoses, and the role of humans in disease occurance. The aim is to understand why infectious diseases emerge and how their occurance is intimately linked to human behaviours.

Prerequisite: HLTB22H3 Exclusion: (HLTB21H3) Breadth Requirements: Natural Sciences

## HLTC27H3 - Community Health and Epidemiology

Epidemiology is the study or the pattern and causes of health-related outcomes and the application of findings to improvement of public health. This course will examine the history of epidemiology and its principles and terminology, measures of disease occurrence, study design, and application of concepts to specific research areas.

Prerequisite: HLTB15H3 and HLTB16H3 and any statistics course Exclusion: ANTC67H3

**Breadth Requirements:** Quantitative Reasoning **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

## HLTC28H3 - Special Topics in Health Studies

An examination of a current topic relevant to health studies. The specific topic will vary from year to year, and may include: Ecosystem Approaches to Zoonotic Disease; Climate Change and Health; Food Insecurity, Nutrition, and Health; Health and the Human-Insect Interface.

Prerequisite: HLTB22H3

**Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

## HLTC29H3 - Special Topics in Health Studies

An examination of a current topic relevant to health studies. The specific topic will vary from year to year, and may include: Ecosystem Approaches to Zoonotic Disease; Climate Change and Health; Food Insecurity, Nutrition, and Health; Health and the Human-Insect Interface.

**Prerequisite:** HLTB22H3 **Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

# 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 newlyemerging health issues are discussed and analyzed in the context of existing policy constraints within Canada and worldwide.

Prerequisite: HLTB40H3 Breadth Requirements: 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) Breadth Requirements: Social & Behavioural Sciences

## HLTC44H3 - Comparative Health Policy Systems

This course surveys a selection 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

Breadth Requirements: Social & Behavioural Sciences

# HLTC46H3 - Globalization, Gender and Health

This interdisciplinary course draws on diverse theoretical and analytical approaches that span the humanities, social sciences and life sciences to critically explore the diverse relationships between gender and health, in local and global contexts. Particular attention is given to intersections between sex, gender and other social locations and processes that impact health and health inequities across the lifespan, including the impacts of ableism, colonialism, hetero-normativity, poverty, racialization, and sexism on women's and men's health, and related health research and practice. Through course readings, case studies, group discussions, class activities, and course assignments, students will apply these theoretical lenses and develop analytical skills that : (1) advance a more contextualized understanding of gender and health across the lifespan, (2) provide important insights into gendered health inequities, and (3) speak to strategies and social movements that begin to address these challenges.

**Prerequisite:** HLTB41H3 or IDSB04H3 **Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op program in Health Studies.

## HLTC47H3 - Special Topics in Health Studies

An examination of a current topic relevant to health studies. The specific topic will vary from year to year, and may include: Social Justice and Health Activism; Climate Change and Health; Labour, Precarity, and Health.

#### Prerequisite: HLTB41H3

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op program in Health Studies.

## HLTC48H3 - Special Topics in Health Studies

An examination of a current topic relevant to health studies. The specific topic will vary from year to year. Topics may include: Social Justice and Health Activism; Climate Change and Health; Labour, Precarity, and Health.

#### Prerequisite: HLTB41H3

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Major/Major Co-op programs in Health Studies.

## HLTC49H3 - Indigenous Health

This course will examine the health and well-being of Indigenous peoples, given historic and contemporary issues. A critical examination of the social determinants of health, including the cultural, socioeconomic and political landscape, as well as the legacy of colonialism, will be emphasized. An overview of methodologies and ethical issues working with Indigenous communities in health research and developing programs and policies will be provided. The focus will be on the Canadian context, but students will be exposed to the issues of Indigenous peoples worldwide. Same as SOCC49H3

Prerequisite: HLTB41H3 or [[ SOCB05H3 or SOCB35H3] and [0.5credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: SOCC49H3 Enrolment Limits: 30 Breadth Requirements: 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; animalhuman mythologies; health, ethics, and the animal.

### Prerequisite: HLTB50H3

**Recommended Preparation:** Prior experience in humanities courses at the secondary or post-secondary level.

Breadth Requirements: Arts, Literature & Language

# HLTC51H3 - Special Topics in Health and Society

An examinaiton of a current topic relevant to the study of health and society. The specific topic will vary from year to year.

Prerequisite: HLTB41H3 or [[SOCB05H3 or SOCB35H3] and [0.5 credit from SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: SOCC51H3 Enrolment Limits: 30 Breadth Requirements: Social & Behavioural Sciences Note: Priority will be given to students enrolled in the Major programs in Health Studies.

## HLTC52H3 - Special Topics in Health Humanities

An examination of a current topic in Health Humanities. The specific topic will vary from year to year.

Prerequisite: HLTB50H3 Enrolment Limits: 60 Breadth Requirements: 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; and permission of the instructor.

## 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 2.0 credits at the C-Level in HLT courses from the requirements of one of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25

## 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; and a minimum CGPA of 2.5; and permission of the instructor. **Exclusion:** HLTC47H3 **Recommended Preparation:** Completion of 3 C-level HLT courses.

### 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 HLTA02H3 and HLTA03H3 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; and permission of the instructor.

Exclusion: (HLTC01H3) Recommended Preparation: Completion of 3 C-level HLT courses.

# 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 [ HLTB41H3 or ( HLTC05H3)] and [an additional 2.0 credit 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: 25 Breadth Requirements: History, Philosophy & Cultural Studies

### HLTD07H3 - Advanced Rehabilitation Sciences: Disability Studies and Lived Experiences of 'Normalcy'

This course builds on HLTC17H3 by examining rehabilitation from the perspectives of researchers, clinicians, and clients. The course focuses on the historical role of rehabilitation, not only in improving health, but also in perpetuating the goal of 'normalcy'. Students will examine how rehabilitation impacts people, both at an individual and societal level, and explore the field of disability studies and its critical engagement with the message that disabled people "need to be repaired."

**Prerequisite:** 2.0 credits at the C-level in HLT courses from the requirements of the Major/Major Co-op programs in Health Studies - Population Health (Science), including HLTC17H3; and a CGPA of 2.5

**Exclusion:** HLTD47H3 if taken before Summer 2018 **Enrolment Limits:** 25

Breadth Requirements: Social & Behavioural Sciences

# HLTD08H3 - Special Topics in Health Sciences

An examination of a current health sciences topic. The specific topic will vary from year to year, and may include: clinical epidemiology, an advanced nutrition topic, or the biology and population health impacts of a specific disease or illness condition.

**Prerequisite:** HLTC27H3 and 2.0 credits at the C-level in HLT courses from the requirements of the Major/Major Co-op program in Health Studies - Population Health (Science)

Recommended Preparation: HLTC19H3 or HLTC25H3 Enrolment Limits: 25

Breadth Requirements: Natural Sciences

# HLTD11H3 - Program and Policy Evaluation

This course provides an introduction to the field of program and policy evaluation. Evaluation plays an important role in evidence based decision making in all aspects of society. Students will gain insight into the theoretical, methodological, practical, and ethical aspects of evaluation across different settings. The relative strenghts and weaknesses of various designs used in applied social research to examine programs and policies will be covered. Same as SOCD11H3

Prerequisite: [HLTB15H3 and [STAB22H3 or STAB23H3]] or [10.0 credits and [SOCB05H3 and SOCB35H3] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: SOCD11H3 Enrolment Limits: 10 Breadth Requirements: Social & Behavioural Sciences

## 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 2.0 credits at the C-Level in HLT courses from the requirements of the Major/Major Co-op programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25 **Breadth Requirements:** Social & Behavioural Sciences

### HLTD13H3 - Special Topics in Health: Global Health and Human Biology

An examination of a current topic relevant to global health, especially diseases or conditions that predominately affect populations in low-income countries. The specific topics will vary from year to year, and may include: HIV/AIDS; insect-borne diseases; the biology of poverty and precarity. The course will provide students with relevant information about social context and health policy, but will focus on the processes of disease transmission and its biological impact on human health.

**Prerequisite:** Completion of at least 2.0 credits at the C-level in HLT courses taken from the requirements of the Major/Major Co-op programs in Health Studies; and a minimum CGPA of 2.5.

Enrolment Limits: 25

Breadth Requirements: Natural Sciences

### HLTD20H3 - Special Topics in Health: Sex, Gender, and the Life Course

An examination of a current health topic relevant to sex, gender, and the life course. The specific topic will vary from year to year, and topics may include: reproductive health; the biology and health impacts of aging; infant feeding, weaning, and nutrition; sexual health among youth. The course will provide students with relevant information about social context and health policy, but will focus on biological processes at specific life stages.

**Prerequisite:** Completion of at least 2.0 credits at the C-level in HLT courses from the requirements of the Major/Major Co-op programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25 **Breadth Requirements:** Natural 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 2.0 credits at the C-level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5.
Enrolment Limits: 25
Breadth Requirements: 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 2.0 credits at the C-Level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25

Breadth Requirements: 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 2.0credits at the C-Level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5.

Enrolment Limits: 25 Breadth Requirements: Social & Behavioural Sciences

# HLTD25H3 - Topics in Environmental Health

The didactic portion of this course will examine emerging environmental health issues using case studies. In the hands-on portion of the course, students will learn a range of research skills - how to use the Systematic Reviews and Meta-Analyses (PRISMA) guidelines, evidence-based health and best practices, and the different elements of a successful grant proposal - while honing their researching, writing, and presenting skills.

**Prerequisite:** HLTC24H3 with a minimum GPA of 2.7 (B-) **Breadth Requirements:** Natural Sciences

### HLTD29H3 - Special Topics in Health: Inequality, Inequity, and Health

An examination of a current topic in inequality, inequity, marginalization, social exclusion, and health outcomes. Topics may include: health and homelessness, poverty and sexual health, political conflict and refugee health. The course will provide students with relevant information about social context and health policy, but will focus on the physical and mental health impacts of various forms of inequity.

**Prerequisite:** Completion of at least 2.0 credits at the C-Level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25 **Breadth Requirements:** Natural Sciences

### HLTD47H3 - Special Topics in Health: Advanced Topics in Health and Wellness

An examination of a current topic in health and wellness. Topics may include: disability, addiction, psychosocial wellbeing, social activism around health issues, Wellness Indices, Community Needs and Assets Appraisals. The course will focus on the contributing historical, social, and/or cultural factors, as well as relevant health policies.

**Prerequisite:** Completion of at least 2.0 credits at the C-Level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5.

Enrolment Limits: 25

Breadth Requirements: Social & Behavioural Sciences

### HLTD48H3 - Special Topics in Health: Current Issues in Global Health

An examination of a current topic in global health, especially a disease or condition that predominantly impacts populations in low-income countries. The specific topic will vary from year to year. Topics may include: HIV/AIDS; war and violence, insect-borne diseases; policies and politics of water and sanitation; reproductive health and population policies, etc. The course will focus on historical factors, socio-political contexts, and health policies.

**Prerequisite:** Completion of at least 2.0 credits at the C-Level in HLT courses from the requirements of the Major/Major Co-operative programs in Health Studies; and a minimum CGPA of 2.5.

Enrolment Limits: 25

Breadth Requirements: Social & Behavioural Sciences

### HLTD49H3 - Global Health Governance: Thinking Alongside the World's Leaders

This advanced seminar course explores contemporary topics in global health governance as they are being discussed and debated by world leaders at key international summits, such as the World Health Summit. After developing an understanding of the historical and political economy context of the main actors and instruments involved in global health governance, contemporary global health challenges are explored. Topics and cases change based on global priorities and student interests, but can include: the impact of international trade regimes on global health inequities; the role transnational corporations and non-governmental organizations play in shaping the global health agenda; the impact globalization has had on universal health care and health human resources in low-income countries: and health care during complex humanitarian crises.

**Prerequisite:** Completion of at least 6.0 credits including 2.0 credits at the C-level in HLT courses from the requirements of the Major/Major Co-op programs in Health Studies; and a minimum CGPA of 2.5. **Enrolment Limits:** 25 **Breadth Requirements:** 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:** HLTA03H3 and HLTB50H3 and [an additional 1.5 credits at the C-level in HLT courses]; and a minimum CGPA of 2.5.

**Recommended Preparation:** Completion of at least 3 C-level HLT courses.

**Breadth Requirements:** Arts, Literature & Language **Note:** Priority will be given to students in the Minor Program in Health Humanities.

## 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:** HLTA03H3 and HLTB50H3 and [an additional 1.5 credits at the C-level in HLT courses]; and a minimum CGPA of 2.5.

**Recommended Preparation:** Prior experience in humanities courses at the secondary or post-secondary level.

**Breadth Requirements:** Arts, Literature & Language **Note:** Priority will be given to students in the Minor Program in Health Humanities.

### HLTD52H3 - Special Topics in Health: Health Histories

An examination of a health topic in historical perspective. The specific topics will vary from year to year, and may include: histories of race, racialization, and health policy; history of a specific medical tradition; or histories of specific health conditions, their medical and popular representations, and their treatment (e.g. historical changes in the understanding and representation of leprosy or depression).

**Prerequisite:** HLTA03H3 and HLTB50H3 and [an additional 1.5 credits at the C-level in HLT courses]; and a minimum of CGPA of 2.5.

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students in the Minor Program in Health Humanities.

### HLTD53H3 - Special Topics in Health Humanities

An examination of a current topic in Health Humanities. The specific topic will vary from year to year.

**Prerequisite:** HLTB50H3 and an additional 2.0 credits at the C-level in HLT courses from the requirements of any of the Major/Major Co-op programs in Health Studies; and a minimum CPGA of 2.5. **Enrolment Limits:** 25 **Breadth Requirements:** Arts, Literature & Language

## HLTD71Y3 - Directed Research in Health Studies

In this year-long directed research course, the student will work with a faculty supervisor to complete an original undergraduate research project. During fall term the student will prepare the research proposal and ethics protocol, and begin data collection. In the winter term the student will complete data collection, analysis, and writeup.

**Prerequisite:** HLTB15H3 and STAB22H3; and a minimum CGPA of 3.0; and permission of the faculty supervisor and ICHS Director. **Breadth Requirements:** Social & Behavioural Sciences

## **Historical and Cultural Studies**

The course identified below is offered for Historical and Cultural Studies.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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 **Broadth Paguiroments:** History, Philosophy & Cultural

**Breadth Requirements:** 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., M.Ph., 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
- <u>D.Gabaccia</u>, 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
- <u>F. lacovetta</u>, M.A., Ph.D. (York), Professor
- <u>R.A. Kazal</u>, 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

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 Food Studies, 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, <u>HISB03H3</u> Critical Writing and Research for Historians and <u>HISC01H3</u> 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.

#### Guidelines for first year course selection:

Students intending to complete a program in History should take two of the following courses in the first year: <u>HISA04H3</u>, <u>HISA05H3</u>, <u>HISA06H3/GASA01H3</u>, <u>HISA07H3/CLAA04H3</u>, <u>HISA08H3/AFSA01H3</u>.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *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. 1.0 credit from the following:

<u>HISA04H3</u> Themes in World History I <u>HISA05H3</u> Themes in World History II <u>HISA06H3</u>/ <u>GASA01H3</u> Introducing Global Asia and its Histories <u>HISA07H3</u>/ <u>CLAA04H3</u> The Ancient Mediterranean World <u>HISA08H3</u>/ <u>AFSA01H3</u> Africa in the World: An Introduction

#### 2. 1.0 credit as follows:

<u>HISB03H3</u> Critical Writing and Research for Historians <u>HISC01H3</u> History and Evidence

#### 3. 4.5 credits at the C-level

4. 1.0 credit at the D-level

#### 5. 2.0 credits must deal with the period prior to 1800

## 6. Students must take 1.0 credit in Canadian history and 4.0 credits distributed over four of the following areas of history:

- a. United States and Latin America
- b. Medieval
- c. European
- d. Africa and Asia
- e. Transnational
- f. 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.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN HISTORY (ARTS)

### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in History is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to History upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including one of <u>HISA04H3</u>, <u>HISA05H3</u>, <u>HISA06H3</u>/ <u>GASA01H3</u>, <u>HISA07H3</u>/ <u>CLAA04H3</u>, or <u>HISA08H3</u>/ <u>AFSA01H3</u>, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in History.

### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in History and have completed at least 10.0 credits, including two of [<u>HISA04H3</u>, <u>HISA05H3</u>, <u>HISA06H3</u>/ <u>GASA01H3</u>, <u>HISA07H3</u>/ <u>CLAA04H3</u>, or <u>HISA08H3</u>/ <u>AFSA01H3</u>] as well as <u>HISB03H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

### Co-op Preparation Course Requirements:

1. COPD01H3 – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### **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. 1.0 credit from the following:

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 HISA08H3/ AFSA01H3 Africa in the World: An Introduction

#### 2. 0.5 credit as follows:

HISB03H3 Critical Writing and Research for Historians

#### 3. 3.0 credits at the C- or D-level

#### 4. 1.5 credits must deal with the period prior to 1800

#### 5. 1.0 credit in Canadian history and at least 0.5 credit in two of the following areas of history:

- a. United States and Latin America
- b. Medieval
- c. European
- d. Africa and Asia
- e. Transnational
- f. Ancient World

### MAJOR (CO-OPERATIVE) PROGRAM IN HISTORY (ARTS)

Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in History is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to History upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including one of <u>HISA04H3</u>, <u>HISA05H3</u>, <u>HISA06H3</u>/ <u>GASA01H3</u>, <u>HISA07H3</u>/ <u>CLAA04H3</u>, or <u>HISA08H3</u>/ <u>AFSA01H3</u>, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in History.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in History and have completed at least 10.0 credits, including two of [<u>HISA04H3</u>, <u>HISA05H3</u>, <u>HISA06H3</u>/ <u>GASA01H3</u>, <u>HISA07H3</u>/ <u>CLAA04H3</u>, or <u>HISA08H3</u>/ <u>AFSA01H3</u>] as well as <u>HISB03H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: <u>COPD03H3</u>
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **MINOR PROGRAM IN HISTORY (ARTS)**

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

#### **Program Requirements**

Students must complete 4.0 credits in History, of which at least 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 Requirements:** 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 Requirements:** 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 GASA01H3

Exclusion: GASA01H3 Breadth Requirements: 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 CLAA04H3 0.50 pre-1800 credit Ancient World Area

### Exclusion: CLAA04H3

**Breadth Requirements:** History, Philosophy & Cultural Studies

## HISA08H3 - Africa in the World: An Introduction

An interdisciplinary introduction to the history and development of Africa 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, Geography, Literature, Film Studies and Women's Studies. African and Asian Area Same as AFSA01H3

**Exclusion:** AFSA01H3, NEW150Y **Breadth Requirements:** 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 Requirements:** 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 Requirements: History, Philosophy & Cultural Studies

## HISB10H3 - 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 CLAB05H3 0.50 pre-1800 credit Ancient World Area

**Exclusion:** CLAB05H3, CLA230H **Breadth Requirements:** History, Philosophy & Cultural Studies

## HISB11H3 - 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 CLAB06H3 0.5 pre-1800 credit Ancient World Area

**Exclusion:** CLAB06H3, CLA231H **Breadth Requirements:** 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 Requirements: 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 Requirements:** 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 twentiethcentury 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 Requirements: 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 republicmaking; 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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, (HIS396H), (HIS396H), Cultural Distance of the December 2, Cultural

**Breadth Requirements:** History, Philosophy & Cultural Studies

# HISB51H3 - Africa from the Colonial Conquests to Independence

Modern Sub-Saharan Africa, from the colonial conquests to the end of the colonial era. The emphasis is on both structure and agency in a hostile world. Themes include conquest and resistance; colonial economies; peasants and labour; gender and ethnicity; religious and political movements; development and underdevelopment; Pan-Africanism, nationalism and independence. Same as AFSB51H3

Africa and Asia Area

Exclusion: AFSB51H3, (HISC51H3), HIS396H, (HIS396Y)

**Recommended Preparation:** AFSA01H3/ HISA08H3 or AFSB50H3 or HISB50H3 strongly recommended. **Breadth Requirements:** History, Philosophy & Cultural Studies

### HISB52H3 - African Religious Traditions Through History

An interdisciplinary introduction to African and African diasporic religions in historic context, including traditional African cosmologies, Judaism, Christianity, Islam, as well as millenarian and synchretic religious movements. Same as AFSB01H3 Africa and Asia Area

Exclusion: AFSB01H3, (AFSA02H3) Recommended Preparation: AFSA01H3/ HISA08H3 Breadth Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

# HISB54H3 - Africa in the Postcolonial Era

Africa from the 1960s to the present. After independence, Africans experienced great optimism and then the disappointments of unmet expectations, development crises, conflict and AIDS. Yet the continent's strength is its youth. Topics include African socialism and capitalism; structural adjustment and resource economies; dictatorship and democratization; migration and urbanization; social movements. Same as AFSB54H3

Prerequisite: AFSA01H3 or AFSB51H3 or 0.5 credit in Modern History Exclusion: AFSB54H3, NEW250Y1 Breadth Requirements: 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 Requirements:** 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. Same as GASB58H3 Africa and Asia Area

Prerequisite: Any 2.0 credits Exclusion: HIS280Y, GASB58H3 Recommended Preparation: 0.5 credit at the A-level in HIS or GAS courses Breadth Requirements: 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 Requirements: History. Phi

**Breadth Requirements:** 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## HISB74H3 - Asian Foods and Global Cities

This course explores the social circulation of Asianidentified foods and beverages using research from geographers, anthropologists, sociologists, and historians to understand their changing roles in ethnic entrepreneurdominated cityscapes of London, Toronto, Singapore, Hong Kong, and New York. Foods under study include bryani, curry, coffee, dumplings, hoppers, roti, and tea. Same as GASB74H3

Breadth Requirements: Social & Behavioural Sciences

## 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## HISC01H3 - 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements:** 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 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: (HISB18H3) Breadth Requirements: 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 Requirements:** 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 Requirements: 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 and CLAB06H3 Breadth Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## HISC29H3 - 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, socioeconomic 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:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses

Recommended Preparation: HISB03H3

**Breadth Requirements:** 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, businesspeople, 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: 1.0 credit at the A-level in AFS, GAS or HIS courses Enrolment Limits: 40 Breadth Requirements: 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 used politics to grapple with these changes.

United States and Latin America Area

**Prerequisite:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses **Recommended Preparation:** HISB30H3 and HISB31H3

**Breadth Requirements:** 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 and HISB31H3] Enrolment Limits: 40 Breadth Requirements: History, Philosophy & Cultural Studies

### HISC34H3 - Race, Segregation, Protest: South Africa and the United States

This transnational history course explores the origins, consolidation, and unmaking of segregationist social orders in the American South and South Africa. It examines the origins of racial inequality, the structural and socio-political roots of segregation, the workings of racial practices and ideologies, and the various strategies of both accommodation and resistance employed by black South Africans and African Americans from the colonial era up to the late twentieth century.

**Prerequisite:** AFSB51H3 or HISB31H3 **Breadth Requirements:** 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:** [Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses] or [any 8.0 credits, including SOCB60H3]

**Recommended Preparation:** HISB30H3 and HISB31H3 **Breadth Requirements:** 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:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses

**Recommended Preparation:** HISB30H3 and HISB31H3 **Enrolment Limits:** 40

**Breadth Requirements:** History, Philosophy & Cultural Studies

## HISC39H3 - Hellhound on My Trail: Living the Blues in the Mississippi Delta, 1890-1945

This course examines black life and culture in the cotton South through the medium of the blues. Major topics include: land tenure patterns in southern agriculture, internal and external migration, mechanisms of state and private labour control, gender conventions in the black community, patterns of segregation and changing race relations.

Exclusion: HIS478H

Enrolment Limits: 50

**Breadth Requirements:** 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 Requirements: 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, humanitarianism, and terrorism. Canadian Area

Prerequisite: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: HIS311H, HIS311Y Recommended Preparation: HISB40H3 or HISB41H3 Breadth Requirements: 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 Requirements:** 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:** Any 4.0 credits, including: AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 or (HISC50H3) or (HISC51H3)

Exclusion: AFSC55H3

**Breadth Requirements:** 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: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: GASC50H3 Recommended Preparation: GASB58H3/ HISB58H3 Enrolment Limits: 40 Breadth Requirements: 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. Same as GASC57H3 Africa and Asia Area

Prerequisite: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: GASC57H3 Recommended Preparation: GASB58H3/ HISB58H3 Enrolment Limits: 40 Breadth Requirements: 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:** Any 4.0 credits, including 0.5 credit at the A- or B-level from AFS, CLA, FST, GAS, HIS or WST courses

**Recommended Preparation:** HISB02H3 or HISB03H3 or GASB57H3/ HISB57H3 or GASB74H3/ HISB74H3 **Breadth Requirements:** 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:** Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses

**Exclusion:** GASC59H3, (HISB54H3), (GASB54H3) **Recommended Preparation:** GASB57H3/HISB57H3 **Breadth Requirements:** 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

Prerequisite: Any 4.0 credits, including 0.5 credit at the A- or B-level in AFS, CLA, FST, GAS, HIS or WST courses Exclusion: (IEEC51H3) Recommended Preparation: HISB62H3 Breadth Requirements: 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:** Any 4.0 credits, including 0.5 credit at the A- or B-level in AFS, CLA, FST, GAS, HIS or WST courses **Recommended Preparation:** HISB62H3 **Breadth Requirements:** History, Philosophy & Cultural

Studies

## HISC68H3 - Constructing the Other: Orientalism through Time and Place

This course reflects on the concept of *Orientalism* and how it informs the fields of Classical Studies and Anthropology. Topics to be discussed include the Orientalization of the past and the origin, role, and significance of ancient representations of the "Other" in contemporary discourses. Same as ANTC58H3 and CLAC68H3

Prerequisite: 1.0 credit from the following: [CLAA04H3/ HISA07H3, CLAB05H3/ HISB10H3, CLAB06H3/ HISB11H3, ANTA02H3, ANTB19H3, ANTB20H3, HISB02H3, AFSB50H3/ HISB50H3, AFSB51H3/ HISB51H3, HISB53H3, HISB57H3, HISB58H3, HISB60H3, HISB61H3, HISB62H3, HISB93H3, HISB94H3] Exclusion: ANTC58H3, CLAC68H3

Enrolment Limits: 40

**Breadth Requirements:** 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. Same as AFSC70H3 Transnational Area

Prerequisite: Any 4.0 credits, including 0.5 credit at the A- or B-level in HIS courses Exclusion: NEW428H, AFSC70H3 Breadth Requirements: 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 Requirements: 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 Arabicspeaking 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 Requirements:** Arts, Literature & Language

## HISC97H3 - Women in Sub-Saharan Africa

This course examines women in Sub-Saharan Africa in the pre-colonial, colonial and postcolonial periods. It covers a range of topics including slavery, colonialism, prostitution, nationalism and anti-colonial resistance, citizenship, processes of production and reproduction, market and household relations, and development. Same as AFSC97H3

Asia and Africa Area

Prerequisite: Any 4.0 credits, including: HISA08H3/ AFSA01H3 or HISB50H3/ AFSB50H3 or HISB51H3/ AFSB51H3 Exclusion: AFSC97H3 Breadth Requirements: History, Philosophy & Cultural Studies

### 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS, GAS or CLA courses]

**Recommended Preparation:** HISB50H3 or HISB53H3 or HISB60H3 or HISB61H3 or HISB62H3 or HISC60H3 **Enrolment Limits:** 15

**Breadth Requirements:** 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: Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS, GAS or CLA courses] Recommended Preparation: HISB62H3 or HISC18H3 or HISC60H3 Enrolment Limits: 15 Breadth Requirements: 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: Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] Exclusion: GASD06H3 Enrolment Limits: 15 Breadth Requirements: History, Philosophy & Cultural Studies

# HISD07H3 - Themes in the History of Childhood and Culture

A comparative analysis of transnationational 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 mixedrace children in British India. Same as WSTD07H3

Transnational Area

**Prerequisite:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS or WST courses] and [0.5 credit at the C-level in HIS or WST courses] **Exclusion:** WSTD07H3

**Recommended Preparation:** HISB02H3 or HISB03H3 or WSTB06H3

Enrolment Limits: 15

**Breadth Requirements:** 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** [HISB30H3 and HISB31H3] or [HISB40H3 and HISB41H3] **Enrolment Limits:** 15

**Breadth Requirements:** 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 and CLAB06H3 Enrolment Limits: 15 Breadth Requirements: 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 Requirements:** 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 Requirements:** 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: 1.0 credit at the B-level and 1.0 credit at the C-level in HIS, WST, or other Humantities and Social Sciences courses Exclusion: WSTD16H3 Enrolment Limits: 15 Breadth Requirements: History, Philosophy & Cultural Studies

## 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB03H3 or HISC01H3 **Enrolment Limits:** 15

**Breadth Requirements:** 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 8.0 credits, including [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses] Exclusion: WSTC02H3 (if taken in Fall 2013), CITC10H3 (if taken in Fall 2013), (HISC28H3), WSTD10H3, HISD44H3 (if taken in Fall 2013) Enrolment Limits: 20 Breadth Requirements: 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB30H3 and HISB31H3 **Enrolment Limits:** 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

### HISD31H3 - Thinking of Diversity: Perspectives on American Pluralisms

A seminar exploring the evolution of American thinking about diversity -- ethnic, religious, and regional -- from colonial-era defenses of religious toleration 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

**Prerequisite:** [Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]] or [10.0 credits including SOCB60H3] **Recommended Preparation:** HISB30H3 and HISB31H3 **Enrolment Limits:** 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

## HISD32H3 - Slavery and Emancipation in the American South

This course explores the origins, growth, and demise of slavery in the United States. It focuses on slavery as an economic, social, and political system that shaped and defined early America. There will be an emphasis on developing historical interpretations from primary sources.

United States and Latin America Area

**Prerequisite:** Any 8.0 credits, including [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB30H3 **Enrolment Limits:** 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

## 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 and HISB31H3 Enrolment Limits: 15

**Note:** Topics vary from year to year. Check the website <u>www.utsc.utoronto.ca/~hcs/programs/history.html</u> 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:** [Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]] or [10.0 credits including SOCB60H3] **Recommended Preparation:** HISB30H3 and HISB31H3 **Enrolment Limits:** 15

**Breadth Requirements:** 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB30H3 and HISB31H3 **Enrolment Limits:** 15

**Breadth Requirements:** 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

#### Enrolment Limits: 15

**Breadth Requirements:** 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.

Canadian Area

**Prerequisite:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB40H3 or HISB41H3 **Enrolment Limits:** 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

## 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 Transnational Area

**Prerequisite:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in AFS, CLA, FST, GAS, HIS or WST courses] and [0.5 credit at the C-level in AFS, CLA, FST, GAS, HIS or WST courses]

Exclusion: WSTD46H3

**Recommended Preparation:** HISB02H3 or HISB03H3 or HISB14H3 or WSTB06H3 or HISB50H3 or GASB57H3/ HISB57H3 or HISC09H3 or HISC29H3

Enrolment Limits: 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Topics vary from year to year. Check the website <u>www.utsc.utoronto.ca/~hcs/programs/history.html</u> for current offerings.

## 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 and at least one other B- or Clevel credit in History Enrolment Limits: 15 Breadth Requirements: 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB40H3 or HISB41H3 **Enrolment Limits:** 15

**Breadth Requirements:** 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: Any 8.0 credits, including: AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 or AFSC55H3/ HISC55H3

Enrolment Limits: 15

**Breadth Requirements:** 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 Africa and Asia Area

Prerequisite: 8.0 credits including AFSB51H3/ HISB51H3 or HISD50H3 Exclusion: AFSD51H3 Enrolment Limits: 15 Breadth Requirements: History, Philosophy & Cultural Studies

# HISD52H3 - East African Societies in Transition

A seminar study of East African peoples from late precolonial 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.

Same as AFSD52H3 Africa and Asia Area

Prerequisite: 8.0 credits including AFSB50H3/ HISB50H3 or AFSB51H3/ HISB51H3 or HISC55H3 Exclusion: AFSD52H3 Enrolment Limits: 15 Breadth Requirements: 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 longlasting 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 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 Requirements: 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. Same as GASD58H3

0.5 pre-1800 credit Africa and Asia area

Prerequisite: Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] Exclusion: GASD58H3 Recommended Preparation: GASB58H3/ HISB58H3 or GASC57H3/ HISC57H3 Enrolment Limits: 15 Breadth Requirements: 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. Same as GASD59H3

0.5 pre-1800 credit

#### Africa and Asia Area

Prerequisite: Any 8.0 credits, including: [0.5 credit at the A- or B-level in GAS or HIS courses] and [0.5 credit at the C-level in GAS or HIS courses] Exclusion: GASD59H3 Recommended Preparation: GASB58H3/ HISB58H3 or GASC57H3/ HISC57H3 Enrolment Limits: 15

Breadth Requirements: History, Philosophy & Cultural Studies

## HISD60H3 - Travel 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:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS courses] and [0.5 credit at the C-level in HIS courses]

**Recommended Preparation:** HISB50H3 or HISB53H3 or HISB60H3 or HISB61H3 or HISB62H3

Enrolment Limits: 15

**Breadth Requirements:** 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 and HISB61H3 Enrolment Limits: 15 Breadth Requirements: 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 and HISB61H3 Enrolment Limits: 15 Breadth Requirements: 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 Requirements:** 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:** HISC04H3 or [(HISC14H3) or HISB14H3] **Enrolment Limits:** 15

**Breadth Requirements:** 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 Requirements: History, Philosophy & Cultural Studies

## HISD73H3 - Engendering Canadian Food History

This course explores Canada's diverse food cultures and the varied relationships that Canadians have had historically with food practices in the context of family, community, region, and nation and with reference to transnational connections and identities. It examines Canada's foodways - the practices and traditions associated with food and food preparation - through the gendered lens of Indigenous-colonial relations, migration and diaspora, family, politics, nutrition, and popular culture. The course is organized around two central principles. One is that just as Canada's rich past resists any singular narrative, there is no such thing as a singular Canadian food tradition. The other is that a focus on questions related to women and gender further illuminate the complex relationship between food and cultural politics, variously defined. The course covers a broad time-span, from early contact between European settlers and First Nations through the end of the twentieth century.

Prerequisite: 4.0 credits in HIS, WST or FST courses Enrolment Limits: 15

**Breadth Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## **International Development Studies**

#### **Faculty List**

- A. Ahmed, B.A., M.A. (Toronto), Ph.D. (McGill), Assistant Professor
- <u>S. Bamford</u>, B.S. (Michigan Technological University), Ph.D. (George Washington University), Assosiate Professor
- <u>A. Berry</u>, 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.Pl. (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
- H. Dinani, B.A., M.A., (Toronto), Ph.D. (Emory), Assistant Professor
- G. Frazer, M.A. (Toronto), Ph.D. (Yale), Assistant Professor
- D. Fu, B.A. (Minnesota), M.Phil, Ph.D. (Oxford), Assistant Professor
- <u>M. Hoffmann</u>, 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
- M.E. Isaac, B.Sc., M.Sc. (Guelph), Ph.D. (Toronto), Assistant Professor
- <u>R. Isakson</u>, 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), Professor
- N. Kortenaar, M.A., Ph.D. (Toronto), Professor
- C. Krupa, B.A., M.A. (Toronto), Ph.D. (California, Davis), Assistant 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
- <u>S. Mollett</u>, 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. Norrlof, 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
- <u>R. Salem</u>, M.A. (Oxford), Ph.D. (Princeton), Assistant Professor
- J. Sharma, M.A. (Hindu), M.Phil. (Delhi), Ph.D. (Cantab), Assistant Professor
- S. Sicchia, MHSc, Msc, PhD (Toronto), Assistant Professor, Teaching Stream
- J. Teichman, B.A., M.A., Ph.D. (Toronto), FRSC, Professor
- B. von Lieres, B.A., M.A. (Witwatersrand, South Africa), D.Phil (Essex), Assistant Professor

Associate Director: L. Chan

Program Advisor: 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 Science, Environmental Studies, Economics for Management Studies, Human 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 alongside their Specialist IDS program. For details about how these combinations can be worked out, please contact the Program Advisor.

The Major in International Development Studies (B.Sc.) is suspended to new enrolments. Studies who are already enrolled in the Program should consult the 2009-10 *Calendar*.

#### Guidelines for first 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 (B.Sc.) and Co-Operative Specialist (B.Sc.) should enroll in <u>IDSA01H3</u>, <u>EESA01H3</u>, <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>[MGEA01H3</u> or <u>MGEA02H3</u>], <u>[MGEA05H3</u> or <u>MGEA06H3</u>].

IDS Specialist (B.A.) and Co-Operative Specialist (B.A.) should enroll in <u>IDSA01H3</u>, <u>EESA01H3</u>, <u>[MGEA01H3</u> or <u>MGEA02H3</u>], <u>[MGEA05H3</u> or <u>MGEA06H3</u>].

IDS Major (B.A.) should enroll in IDSA01H3.

IDS Minor (B.A.) should enroll in IDSA01H3.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **International Development Studies Programs**

### SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

#### **Program Requirements**

This program requires the completion of 13.0 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. Introduction to International Development Studies (2.0 credits as follows)

**IDSA01H3** Introduction to International Development Studies

[<u>MGEA01H3</u> Introduction to Microeconomics *or* <u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach] [<u>MGEA05H3</u> Introduction to Macroeconomics *or* <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach] <u>EESA01H3</u> Introduction to Environmental Science

#### 2. Core courses in International Development (3.0 credits as follows)

IDSB01H3 Political Economy of International Development

IDSB02H3 Development and Environment

IDSB04H3 Introduction to International/Global Health

<u>IDSB06H3</u> 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 as follows)

IDSC04H3 Project Management I

and

0.5 credit in Quantitative/statistical methods from the following: <u>ANTC35H3</u> Quantitative Methods in Anthropology <u>MGEB11H3</u> Quantitative Methods in Economics I <u>GGRA30H3</u> Geographic Information Systems (GIS) and Empirical Reasoning <u>GGRB30H3</u> Fundamentals of GIS I <u>HLTB15H3</u> Introduction to Health Research Methodology <u>STAB23H3</u> Introduction to Statistics for the Social Sciences and 0.5 credit in Qualitative methods from the following: <u>ANTB19H3</u> Ethnography and the Comparative Study of Human Societies <u>GGRC31H3</u> Qualitative Geographical Methods: Place and Ethnography HLTC04H3 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 credits)

A minimum of 2.0 credits must be chosen from two different clusters below for a total of 4.0 credits. The other 2.0 credits may be selected from any of the courses listed below, and <u>IDSA02H3</u>/<u>AFSA03H3</u>, <u>IDSC07H3</u>, <u>IDSC10H3</u>, <u>IDSC10H3</u>, <u>IDSC15H3</u>, <u>IDSD10H3</u>, <u>IDSD12H3</u> and <u>IDSD13H3</u>, <u>IDSD14H3</u> and <u>IDSD15H3</u> 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 ANTB18H3 Development, Inequality and Social Change in Latin America 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 Africa from the Colonial Conquests to Independence HISB57H3/ GASB57H3 Sub-Continental Histories: South Asia in the World HISC29H3 Global Commodities: Nature, Culture, History HISC55H3/ AFSC55H3 War and Society in Modern Africa HISD51H3/ AFSD51H3 Southern Africa: Colonial Rule, Apartheid and Liberation IDSD06H3 Feminist and Postcolonial Perspectives in Development Studies SOCC25H3 Ethnicity, Race and Migration SOCC29H3 Family and Gender in the Middle East SOCC34H3 Migrations & Transnationalisms SOCC58H3 Global Transformations: Politics, Economy & Society VPMC01H3 Exploring Community Music

VPMD01H3 Senior Seminar: Music in Our Communities

#### **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 International Aspects of 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 POLC69H3 Political Economy: International and Comparative Perspectives 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 GGR21H3 Political Ecology: Nature, Society and Environmental Change GGRC10H3 Urbanization and Development GGRC25H3 Land Reform and Development GGRC4H3 Environmental Conservation and Sustainable Development GGRD49H3 Land and Land Conflicts in the Americas 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 ANTC24H3 Culture, Mental Illness, and Psychiatry 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

#### **Politics and Policy**

ANTC32H3 Political Anthropology 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 POLC87H3International Cooperation and InstitutionsPOLC88H3The New International AgendaPOLC90H3Development Studies: Political and Historical PerspectivesPOLC91H3Latin America: Dictatorship and DemocracyPOLC96H3State Formation and Authoritarianism in the Middle EastPOLC99H3Protest Politics in the Middle EastPOLC99H3Latin America: Politics of the DispossessedPOLC99H3International Relations of Ethnic ConflictPOLD9H3Rational Choice and International CooperationPOLD90H3Public Policy and Human Development in the Global SouthPOLD92H3Survival and Demise of DictatorshipsPOLD94H3Selected Topics on Developing Areas

## SPECIALIST (CO-OPERATIVE) PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

Co-op Contact: ids-coop@utsc.utoronto.ca

The Specialist (Co-op) Program in International Development Studies (Arts) provides students with a critical understanding of international development issues through exposure to a variety of academic disciplines, cultures, and an overseas work experience in the field of international development.

The specific academic objectives of the 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 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.

The work term, which is eight to twelve months in duration, will normally begin between May and August of the fourth 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.

#### **Enrolment Requirements**

Enrolment in the program is limited. The minimum qualifications for entry are 4.0 credits and a cumulative GPA of at least 2.5. Most students are accepted into the program directly from secondary school. Transfer students and current UTSC students may also apply for admission but require a minimum of 4.0 credits up to a maximium of 6.0 credits.

An interview is required. Interviews are normally held from January until May for students who pass the initial screening. Successful applicants will demonstrate strong academic performance, language skills, extra-curricular involvement, and demonstrated interest in international development.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the International Development Studies Co-op Office in IC 172 (<u>https://www.utsc.utoronto.ca/ccds/applying-admission-requirements</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

The program requires a total 15.0 credits, 4.0 credits of which must be at the C- or D-level, including at least 1.0 credit at the D-level. Students must complete components 1-5 of the program requirements as described in the Specialist Program in International Development Studies (Arts).

In addition, students must complete:
6. Co-operative, Language and Thesis Requirements (2.5 credits)
1.0 credit in a second language
<u>IDSC01H3</u> Research Design for Development Fieldwork (must be taken prior to co-op placement)
<u>IDSD01Y3</u> Post-placement Seminar and Thesis

#### **Co-op Work Term Requirements**

To be eligible for placement, students must have completed 14.5 credits, including <u>IDSC01H3</u>, <u>IDSC04H3</u> and 6.0 credits from Requirements 1. through 4. as noted above. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6., as well as the required 1.0 credit in a second language, when completing the remainder of the 14.5 credits that are required prior to placement.

Students are required to submit bi-monthly progress reports every 2 months and begin work on a major research project.

In addition to the academic course requirements, students are required to complete two additional non-credit courses: <u>COPD02H3</u> and <u>COPD04H3</u>. These courses are taken in first and third year of the program with the aim of providing students with the skills and knowledge needed to successfully navigate the placement experience. These credits are in addition to the 20.0 credits required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer. A grade of CR (credit)/NCR (no credit) is recorded on the transcript.

For information on fees and status in Co-op Programs, and certification of completion of Co-op programs, see section 6B.5 (Co-operative Programs) of the UTSC *Calendar*.

## SPECIALIST PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (SCIENCE)

#### Program Requirements:

This program requires 13.5 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. Introduction to Sciences and International Development Studies (4.5 credits):

IDSA01H3 Introduction to International Development Studies

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

EESA01H3 Introduction to Environmental Science

EESA06H3 Introduction to Planet Earth

[<u>MGEA01H3</u> Introduction to Microeconomics or <u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach] [<u>MGEA05H3</u> Introduction to Macroeconomics or <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach]

#### 2. Core courses in International Development (2.0 credits):

IDSB01H3 Political Economy of International Development

<u>IDSB02H3</u> Development and Environment <u>IDSB04H3</u> Introduction to International/Global Health <u>IDSB06H3</u> Equity, Ethics and Justice in International Development

#### 3. Core Courses in Environmental Biology (2.5 credits):

<u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology <u>EESB03H3</u> Principles of Climatology <u>EESB05H3</u> Principles of Soil Science <u>EESB16H3</u> Feeding Humans - The Cost to the Planet

#### 4. Methods for International Development Studies (1.5 credits):

IDSC02H3 Environmental Science and Evidence-Based Policy IDSC04H3 Project Management I and 0.5 credit from the following: GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning STAB22H3 Statistics I (or equivalent)

## 5. Advanced courses in Environmental Biology (2.0 credits, of which 0.5 credit must be at the D-level):

Choose from: <u>BIOC37H3</u> Plants: Life on the Edge <u>BIOC58H3</u> Biological Consequences of Global Change <u>BIOC61H3</u> Community Ecology and Environmental Biology <u>BIOC62H3</u> Role of Zoos and Aquariums in Conservation <u>BIOC63H3</u> Conservation Biology <u>EESC04H3</u> Biodiversity and Biogeography <u>BIOD54H3</u> Applied Conservation Biology <u>EESD06H3</u> Climate Change Impact Assessment

### 6. Environmental Science in Practice (0.5 credit):

Choose from: <u>EESC13H3</u> Environmental Impact Assessment and Auditing (<u>GGRC22H3</u>) Political Ecology Theory and Applications <u>GGRC26H3</u> Geographies of Environmental Governance <u>GGRC44H3</u> Environmental Conservation and Sustainable Development

#### 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: <a href="mailto:ids-coop@utsc.utoronto.ca">ids-coop@utsc.utoronto.ca</a>

The Specialist (Co-operative) Program in International Development Studies (Science) provides students with a critical understanding of international development issues through exposure to a variety of academic disciplines, cultures, and an overseas work experience in the field of international development.

The specific academic objectives of the 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 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.

The work term, which is of eight to twelve months in duration, will normally begin between May and August of the fourth 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.

#### **Enrolment Requirements**

Enrolment in the Program is limited. The minimum qualifications for entry are 4.0 credits and a Cumulative GPA of at least 2.5. Most students are accepted into the program directly from secondary school. Transfer students and current UTSC students may also apply for admission but require a minimum of 4.0 credits up to a maximium of 6.0 credits.

An interview is required. Interviews are normally held from January until May for students who pass the initial screening. Successful applicants will demonstrate strong academic performance, language skills, extra-curricular involvement, and demonstrated interest in international development.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the International Development Studies Co-op Office in IC 172 (<u>https://www.utsc.utoronto.ca/ccds/applying-admission-requirements</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

The program requires students to complete a total 15.5 credits, of which 4.0 credits must be at the C-or D- level including at least 1.0 credit at the D-level.

#### 1. Introduction to Sciences and International Development Studies (4.5 credits):

 IDSA01H3
 Introduction to International Development Studies

 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

 EESA01H3
 Introduction to Environmental Science

 EESA06H3
 Introduction to Planet Earth

 [MGEA01H3
 Introduction to Microeconomics or MGEA02H3

 [MGEA05H3
 Introduction to Macroeconomics or MGEA06H3

#### 2. Core Courses in International Development (2.0 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

#### 3. Core courses in Environmental Biology (2.5 credits):

<u>BIOB50H3</u> Ecology <u>BIOB51H3</u> Evolutionary Biology <u>EESB03H3</u> Principles of Climatology <u>EESB05H3</u> Principles of Soil Science <u>EESB16H3</u> Feeding Humans - The Cost to the Planet

#### 4. Methods for International Development Studies (1.5 credits):

IDSC02H3 Environmental Science and Evidence-Based Policy IDSC04H3 Project Management I and 0.5 credit from the following: GGRA30H3 Geographic Information Systems (GIS) and Empirical Reasoning STAB22H3 Statistics I or equivalent

#### 5. Advanced Courses in Environmental Biology (2.0 credits of which 0.5 must be at the D-level):

Choose from: <u>BIOC37H3</u> Plants: Life on the Edge <u>BIOC58H3</u> Biological Consequences of Global Change <u>BIOC61H3</u> Community Ecology and Environmental Biology <u>BIOC62H3</u> Role of Zoos and Aquariums in Conservation <u>BIOC63H3</u> Conservation Biology <u>EESC04H3</u> Biodiversity and Biogeography <u>BIOD54H3</u> Applied Conservation Biology <u>EESD06H3</u> Climate Change Impact Assessment

#### 6. Environmental Science in Practice (0.5 credit):

Choose from: <u>EESC13H3</u> Environmental Impact Assessment and Auditing (<u>GGRC22H3</u>) Political Ecology Theory and Applications <u>GGRC25H3</u> Land Reform and Development <u>GGRC26H3</u> Geographies of Environmental Governance <u>GGRC44H3</u> Environmental Conservation and Sustainable Development

#### 7. Co-operative, Language and Thesis Requirements (2.5 credits):

1.0 credit in a second language <u>IDSC01H3</u> Research Design for Development Fieldwork\* (\*must be taken prior to co-op placement) <u>IDSD01Y3</u> Post-placement Seminar and Thesis

#### **Co-op Work Term Requirements**

To be eligible for placement, students must have completed 14.5 credits, including 10.5 credits from Requirements 1. through 4. as noted above and <u>IDSC01H3</u>. It is highly recommended that students complete courses towards fulfilling their specialized courses from Requirement 6., as well as the required 1.0 credit in a second language, when completing the remainder of the 14.5 credits that are required prior to placement.

Students are required to submit bi-monthly progress reports every 2 months and begin work on a major research project.

In addition to the academic course requirements, students are required to complete two additional non-credit courses: <u>COPD02H3</u> and <u>COPD04H3</u>. These courses are taken in first and third year of the program with the aim of providing students with the skills and knowledge needed to successfully navigate the placement experience. These credits are in addition to the 20.0 credits required for the degree. Work terms are evaluated by program faculty, the co-op office, and the employer. A grade of CR (credit)/NCR (no credit) is recorded on the transcript.

For information on fees and status in Co-op Programs, and certification of completion of Co-op programs, see section 6B.5 (Co-operative Programs) of the UTSC *Calendar*.

## MAJOR PROGRAM IN INTERNATIONAL DEVELOPMENT STUDIES (ARTS)

#### **Program Requirements**

This program requires 8.0 credits of which at least 2.0 credits 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)

1.5 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

(Students wishing to take <u>IDSB01H3</u> should be aware that there are A-level prerequisites for this course.)

#### 3. Methods for International Development Studies (1.5 credits)

IDSC04H3 Project Management I and 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 STAB23H3 Introduction to Statistics for the Social Sciences and 0.5 credit in qualitative methods from the following: ANTB19H3 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. <u>POLB91H3</u> 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:

<u>IDSB01H3</u> Political Economy of International Development\* <u>IDSB02H3</u> Development and Environment <u>IDSB04H3</u> Introduction to International/Global Health <u>IDSB06H3</u> Equity, Ethics and Justice in International Development <u>POLB90H3</u> Comparative Development in International Perspective \*Students interested in <u>IDSB01H3</u> 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. <u>POLB91H3</u> 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 "highincome" 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 and 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 Requirements:** 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: IDSB02H3 Enrolment Limits: 50 Breadth Requirements: 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 Requirements: 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 nongovernment 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.

Breadth Requirements: Social & Behavioural Sciences

## 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 mediagenerated 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 Requirements: Social & Behavioural Sciences

## IDSC10H3 - Topics in International Development Studies

Contents to be determined by instructor.

Prerequisite: IDSA01H3 and IDSB01H3 and IDSB02H3

### IDSC11H3 - Issues in Global and International Health

Key global and international health issues are explored indepth 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: 8.0 credits including IDSA01H3 and IDSB04H3 Enrolment Limits: 35

Breadth Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## IDSC15H3 - Special Topics in International Development Studies

The topics presented in this course will represent a range of issues in international development studies. Topics will vary by instructor and term.

**Prerequisite:** 10.0 credits including IDSA01H3 **Breadth Requirements:** 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 Requirements:** 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 topdown, 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 Requirements: 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 and 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 Requirements: 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 Requirements:** 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 Requirements: 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

## IDSD12H3 - Topics in International Development Studies

The topics presented in this course will represent a range of issues in international development studies. Topics will vary by instructor and term.

**Prerequisite:** 12.0 credits, including IDSA01H3 **Enrolment Limits:** 25

## IDSD13H3 - Special Topics in International Development Studies

The topics presented in this course will represent a range of issues in international development studies. Topics will vary by instructor and term.

Prerequisite: 12.0 credits including IDSA01H3 Enrolment Limits: 25 Breadth Requirements: Social & Behavioural Sciences

## 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 Requirements: Social & Behavioural Sciences

## **International Studies**

The Major in International Studies is suspended to new enrolments. Students who are already enrolled in the Program should consult the 2009-10 *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **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 and POLB81H3 and [(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

Students who are interested in the critical analysis of journalism, rather than in becoming a working journalist, may want to consider the Major Program in Media, Journalism and Digital Cultures, which includes a stream in Journalism Studies. For a description of the Program, see the Media Studies section of the *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Journalism Programs**

## SPECIALIST (JOINT) PROGRAM IN JOURNALISM (ARTS)

Program Director: K. Burchell (416-287-7581) Email: journalism@utsc.utoronto.ca

This program may be taken in fulfillment of the requirements of a four-year (20.0 credit) Honours Bachelor of Arts (BA) degree and requires four to five years to complete. In addition to completing the requirements for the Honours BA, students will also qualify for the Ontario Graduate Certificate in Contemporary Journalism from Centennial College.

Courses are taught at both U of T Scarborough and at Centennial College (The Story Arts Centre in East York). Year 1 and Year 2 of the program are taught at UTSC. Centennial courses are taken during three consecutive college semesters starting in the Fall semester of Year 3 of the program, prior to returning to UTSC for a final semester of instruction in the Fall semester of Year 4 of the program. Students must be registered on a full-time basis while at Centennial College. The course work during the Centennial College portions of the program may include evenings and weekends. The Centennial College portions of the program also includes a 7-week, 35-hour field placement (<u>JOUC25H3</u>). The final semester prior to graduation will take place on the UTSC campus where students will complete the C- and D-level program requirements, including the D-level capstone course.

#### Guidelines for first year course selection

Students intending to complete the program should include the following in their first year course selection: <u>MDSA01H3</u> and <u>JOUA01H3</u> and <u>JOUA02H3</u> and <u>ACMB01H3</u> 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 <u>TDoyle@centennialcollege.ca</u>

#### The Journalism Study Guide is available at: <u>www.utsc.utoronto.ca/jtprogs/journalism-course-sequence</u>

#### **Enrolment Requirements**

This program has limited enrolment. Applicants must fill out a joint program application form, which is available online at <a href="http://www.utsc.utoronto.ca/jtprogs">www.utsc.utoronto.ca/jtprogs</a>

#### Students must maintain a Cumulative Grade Point Average (CGPA) of 2.0 or higher to remain in the program.

### **Program Requirements**

This program requires the completion of at least 13.0 credits, as indicated below:

### 1. First Year (2.5 credits):

Introductory Journalism Courses (1.0 credit) JOUA01H3 Introduction to Journalism and News Literacy I JOUA02H3 Introduction to Journalism II

Introductory Media Studies Courses (0.5 credit) MDSA01H3 Introduction to Media Studies

Introductory Humanities Courses (1.0 credit) <u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs <u>ACMB02H3</u> Methods of Inquiry and Investigation for ACM Programs

Note: Courses for Year 1 of the program are taught on the UTSC Campus.

### 2. Second Year (2.0 credits):

Journalism Core Courses <u>JOUB01H3</u> Covering Immigration and Transnational Issues <u>JOUB02H3</u> Critical Journalism <u>JOUB24H3</u> Journalism in the Age of Digital Media <u>JOUB39H3</u> Fundamentals of Journalistic Writing

Note: Courses for Year 2 of the program are taught on the UTSC Campus.

### 3. Third Year (6.5 credits):

#### Journalism Application Courses

(a) Centennial College Group 1 (2.5 credits)

- \* JOUA06H3 Contemporary Issues in Law and Ethics
- \* JOUB11H3 News Reporting

\* <u>JOUB14H3</u> Mobile Journalism

- \* JOUB18H3 Visual Storytelling: Photography and Videography
- \* JOUB19H3 Data Management and Presentation

\*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 <u>JOUA01H3</u>, <u>JOUA02H3</u>, <u>MDSA01H3</u>, <u>JOUB01H3</u>, <u>JOUB02H3</u>, <u>JOUB02H3</u>, <u>JOUB24H3</u>, <u>JOUB39H3</u>, <u>ACMB01H3</u>, and <u>ACMB02H3</u>.

- (b) Centennial College Group 2 (2.5 credits)
- \* JOUB05H3 Advanced Video and Audio Production
- \* JOUB20H3 Interactive: Data and Analytics
- \* JOUC18H3 Storyworks
- \* JOUC19H3 Social Media and Mobile Storytelling
- \* JOUC20H3 Emerging Tools and Technology
- \*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.

Advanced Journalism Application Courses

(c) Centennial College Group 3, Summer Semester (1.5 credits)

\* <u>JOUB03H3</u> Business of Journalism

\* <u>JOUC13H3</u> Entrepreneurial Reporting

\* JOUC25H3 Field Placement

\*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.

Note: Courses for Year 3 of the program are taught at the Centennial College Story Arts Centre in East York.

#### 4. Fourth Year (2.0 credits):

Senior Journalism Studies Courses 1.5 credits at the C- or D-level in MDS or JOU courses, of which at least 0.5 credit must be at the D-level. JOUD10H3 Senior Seminar in Journalism

Note: courses for Year 4 of the program are taught on the UTSC campus

### **Journalism Courses**

## JOUA01H3 - Introduction to Journalism and News Literacy I

An introduction to the social, historical, philosophical, and practical contexts of journalism. The course will examine the skills required to become news literate. The course will look at various types of media and the role of the journalist. Students will be introduced to specific techniques to distinguish reliable news from so-called fake news. Media coverage and analysis of current issues will be discussed.

Exclusion: (MDSA21H3) Breadth Requirements: Arts, Literature & Language

# JOUA02H3 - Introduction to Journalism

A continuation of JOUA01H3.

Prerequisite: (MDSA21H3) or JOUA01H3 Exclusion: (MDSA22H3) Breadth Requirements: Arts, Literature & Language

# JOUA06H3 - Contemporary Issues in 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 Specialist (Joint) program in Journalism.

Prerequisite: 10.0 credits including: JOUB01H3 and JOUB02H3 and ACMB02H3 Corequisite: JOUB11H3 and JOUB14H3 and JOUB18H3 and JOUB19H3 Exclusion: (MDSB04H3) Breadth Requirements: History, Philosophy & Cultural Studies

# JOUB01H3 - 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.

Prerequisite: ACMB01H3 and JOUA01H3 and JOUA02H3 Exclusion: (MDSB26H3) Breadth Requirements: Arts, Literature & Language

# JOUB02H3 - 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.

**Prerequisite:** 4.0 credits including ACMB01H3 and JOUA01H3 and JOUA02H3 **Exclusion:** (MDSB27H3) **Breadth Requirements:** Arts, Literature & Language

## JOUB03H3 - Business of Journalism

Today's 'contract economy' means full-time staff jobs are rare. Students will dissect models of distribution and engagement, discussing trends, predictions and future opportunities in media inside and outside the traditional newsroom. 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: [JOUB05H3 and JOUB19H3 and JOUC18H3 and JOUC19H3 and JOUC20H3] and [(JOUB09H3) or JOUB20H3]; students must have a minimum CGPA of 2.0 **Corequisite:** JOUC13H3 and JOUC25H3 **Breadth Requirements:** Arts, Literature & Language

# JOUB05H3 - Advanced Video and Audio Production

The fundamentals of video, audio story telling, and performance will be applied to mobile and social platforms, exploring the best practices before researching, interviewing, reporting, editing, and producing content. 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 and JOUB11H3 and JOUB14H3 and JOUB18H3 and JOUB19H3

**Corequisite:** JOUB03H3 and JOUB20H3 and JOUC18H3 and JOUC19H3 and JOUC20H3 **Breadth Requirements:** Arts, Literature & Language

## **JOUB11H3 - News Reporting**

Through research and practice, students gain an understanding of news judgment and value, finding and developing credible sources and developing interviewing, editing and curating skills. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 10.0 credits including: JOUB01H3 and JOUB02H3 and ACMB02H3 **Corequisite:** JOUA06H3 and JOUB14H3 and JOUB18H3 and JOUB19H3 **Breadth Requirements:** Arts, Literature & Language

## JOUB14H3 - Mobile Journalism

Today, content creators and consumers both use mobile tools and technologies. Students will explore the principles of design, including responsive design, and how they apply to various platforms and devices. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 10.0 credits including: JOUB01H3 and JOUB02H3 and ACMB02H3; students must have a minimum CGPA of 2.0 **Corequisite:** JOUA06H3 and JOUB11H3 and JOUB18H3 and JOUB19H3 **Breadth Requirements:** Arts, Literature & Language

## JOUB18H3 - Visual Storytelling: Photography and Videography

Applying photo-journalism principles to the journalist's tool of choice, the smartphone. Students will take professional news and feature photos, video optimized for mobile use and will capture credible, shareable visual cross-platform stories. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 10.0 credits, including JOUB01H3 and JOUB02H3 and ACMB02H3 **Corequisite:** JOUA06H3 and JOUB11H3 and JOUB14H3 and JOUB19H3 **Breadth Requirements:** Arts, Literature & Language

# JOUB19H3 - Data Management and Presentation

To develop stories from raw numbers, students will navigate spreadsheets and databases, and acquire raw data from web pages. Students will learn to use Freedom of Information requests to acquire data. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 10.0 credits, including: JOUA01H3, JOUA02H3, JOUB01H3, JOUB02H3, and ACMB02H3; students must have a minimum CGPA of 2.0 **Corequisite:** JOUA06H3 and JOUB11H3 and JOUB14H3 and JOUB18H3 **Breadth Requirements:** Arts, Literature & Language

# JOUB20H3 - Interactive: Data and Analytics

Building the blending of traditional skills in reporting and writing with interactive production protocols for digital news. The course provides an introduction to web development and coding concepts. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 12.0 credits, including: JOUA06H3 and JOUB11H3 and JOUB14H3 and JOUB18H3 and JOUB19H3; students must have a minimum CGPA of 2.0 **Corequisite:** JOUB05H3 and JOUC18H3 and JOUC19H3 and JOUC20H3

Breadth Requirements: Arts, Literature & Language

# JOUB24H3 - Journalism in the Age of Digital 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.

Exclusion: (MDSB24H3) Breadth Requirements: 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.

Prerequisite: [( MDSA21H3) or JOUA01H3] and [( MDSA22H3) or JOUA02H3] and ( HUMA01H3). Exclusion: ( MDSB39H3) Breadth Requirements: Arts, Literature & Language

## JOUC13H3 - Entrepreneurial Reporting

Working in groups under faculty supervision from the newsroom, students will create, present and share significant portfolio pieces of multiplatform content, demonstrating expertise in credible, verifiable storytelling for discerning audiences. 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: [JOUB05H3 and JOUC18H3 and JOUC19H3 and JOUC20H3] and [(JOUB09H3) or JOUB20H3]; students must have a minimum CGPA of 2.0 **Corequisite:** JOUB03H3 and JOUC25H3 **Breadth Requirements:** Arts, Literature & Language

## JOUC18H3 - Storyworks

This experiential learning course provides practical experience in communication, media and design industries, supporting the student-to-professional transition in advance of work placements, and graduation towards becoming practitioners in the field. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 12.0 credits, including: JOUA06H3, JOUB11H3, JOUB14H3, JOUB18H3 and JOUB19H3; students must have a minimum CGPA of 2.0 **Corequisite:** JOUB05H3 and JOUB20H3 and JOUC19H3 and JOUC20H3 **Breadth Requirements:** Arts, Literature & Language

JOUC19H3 - Social Media and Mobile Storytelling

Students will effectively use their mobile phones in the field to report, edit and share content, while testing emerging apps, storytelling tools and social platforms to connect with audiences. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

**Prerequisite:** 12.0 credits, including: JOUA06H3, JOUB11H3, JOUB14H3, JOUB18H3 and JOUB19H3; students must have a CGPA of 2.0 **Corequisite:** JOUB05H3 and JOUB20H3 and JOUC18H3 and JOUC20H3 **Breadth Requirements:** Arts, Literature & Language

# JOUC20H3 - Emerging Tools and Technology

From drones to virtual reality, and from augmented reality to artificial intelligence, this course will open students' minds to innovation in storytelling and communications and provide opportunities to discover and explore through interaction with leading-edge practitioners in communications and journalism. This course is taught at Centennial College and is open only to students in the Specialist (Joint) program in Journalism.

Prerequisite: 12.0 credits, including: JOUA06H3, JOUB11H3, JOUB14H3, JOUB18H3 and JOUB19H3; students must have a minimum CGPA of 2.0 Corequisite: JOUB05H3 and JOUB20H3 and JOUC18H3 and JOUC19H3 Broadth Paguirements: Arts, Literature & Language

Breadth Requirements: 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 Specialist (Joint) program in Journalism.

**Prerequisite:** Students must be in good standing and have successfully completed groups 1, 2, and be completing group 3 of the Centennial College phase of the Specialist (Joint) program in Journalism. **Breadth Requirements:** Arts, Literature & Language

# 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 Requirements:** 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 Requirements:** Arts, Literature & Language **Note:** Priority will be given to students in the Specialist (Joint) program in Journalism.

## JOUC60H3 - Diasporic Media

New media technologies enable more production and distribution of culturally, ethnically and linguistically diverse voices than ever before. Who produces these diverse voices and how accessible are these media? This course explores various types of diasporic media from century-old newspapers to young and hip news and magazine blogs, produced by and for members of a multicultural society.

#### Same as MDSC60H3

**Prerequisite:** ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Exclusion:** MDSC60H3

**Breadth Requirements:** History, Philosophy & Cultural Studies

# JOUC62H3 - Media, Journalism and Digital Labour

This course explores themes of labour in *news* media and *new* media. Topics include labour conditions for media workers across sectors; the labour impacts of media convergence; and the global distribution of media labour including content generation and management. The course is structured by intersectional analyses, studying how race and racism, class, gender, sex and sexism, sexuality, nationality, global location and citizenship status, Indigeneity and religion shape our experiences of media, journalism and labour.

Same as MDSC62H3

**Prerequisite:** ACMB01H3 and [[ MDSA01H3 and MDSB05H3] or [ JOUA01H3 and JOUA02H3] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Exclusion:** MDSC62H3 **Breadth Requirements:** 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 Requirements: History, Philosophy & Cultural Studies

# JOUC80H3 - Understanding Audiences in the Digital Age

Understanding the interests and goals of audiences is a key part of media production. This course introduces communication research methods including ratings, metrics, in-depth interviews, and focus groups. The focus of class discussion and research project is to use these methods to be able to understand the nature of audiences' media use in the digital age.

Same as MDSC80H3

Prerequisite: ACMB01H3 and [[2.0 credits at the B level in MDS courses] or [2.0 credits at the B level in JOU courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] Exclusion: MDSC80H3 Enrolment Limits: 45 Breadth Requirements: 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 Requirements:** Arts, Literature & Language

# JOUD11H3 - Senior Research Seminar in Media and 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. Same as MDSD11H3

**Prerequisite:** ACMB02H3 and [an additional 4.5 credits in MDS or JOU courses, 1.0 credit of which must be at the C-level]

#### Exclusion: MDSD11H3

**Breadth Requirements:** 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 Requirements:** Arts, Literature & Language **Note:** Priority will be given to students in the Specialist (Joint) program in Journalism.

# Languages

#### **Faculty List**

- 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
- <u>H.X. Wu</u>, M.A., Ph.D. (Toronto), Associate Professor, Teaching Stream

The courses listed under LGG include language courses in Chinese (Mandarin), Hindi, Japanese, and Tamil.

Registration in all courses with the prefixes ECT and LGG are subject to the approval of the instructor. Students who intend to take any ECT and LGG Chinese course for the first time must take the placement test/survey on this website. Students who are interested in other languages 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 <u>cfl-ua@utsc.utoronto.ca</u> 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 section 6A.5 of the *Calendar* for more information about this notation.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

### 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.

Students are required to undergo a fluency interview held at UTSC, and must present their original documents (TOFEL or IELTS or HSK scores or four-year transcripts at high school and/or university in designated English-speaking countries). Interview dates and a questionnaire will be posted to the <u>Centre for French and Linguistics</u> website.

#### Program Requirements

Students are required to complete a total of 4.0 credits.

#### 1. 2.0 credits as follows:

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:

ECTB60H3 Food, Cultures, and Translation 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

### 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. Students must be able to read and write Chinese and English well.

**Breadth Requirements:** Arts, Literature & Language **Note:** Students will be assessed by the instructor in their first week of class, and must 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 Requirements:** 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 Requirements:** 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 LGGC67H3]. Students must have a minimum GPA of 70% in LGGC64H or LGGC65H (or an equivalent through an interview).

**Recommended Preparation:** High proficiency in both Chinese and English.

Enrolment Limits: 30

Breadth Requirements: 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 LGGC67H3]. Students must have a minimum GPA of 70% in LGGC64H or LGGC65H (or an equivalent through an interview).

**Recommended Preparation:** High proficiency in both Chinese and English.

Enrolment Limits: 30

Breadth Requirements: Arts, Literature & Language

## LGGA60H3 - Introductory Mandarin I

A comprehensive introduction to Mandarin as a foreign language for students with no previous knowledge of any aspect of any Chinese dialect. This course emphasizes integrated practical Chinese instruction in listening, speaking, reading, writing (from characters to compositions) and translation (from Chinese into English and from English into Chinese).

**Exclusion:** All EAS, CHI and 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 Requirements:** 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 and 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 Requirements: History, Philosophy & Cultural Studies

### LGGA64H3 - 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), (LGGB64H3). All EAS, CHI and 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 Requirements: Arts, Literature & Language

### LGGA65H3 - Mandarin II for Students with Prior Background

A continuation of LGGA64H3.

#### Prerequisite: LGGA64H3 or (LGGA62H3)

**Exclusion:** (LGGA63H3), (LGGB65H3). All EAS, CHI and LGG Chinese language courses except LGGA64H3 or (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 Requirements: 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 LGGB70H3 or LGGB71H3.

Enrolment Limits: 30

Breadth Requirements: 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 Requirements: History, Philosophy & Cultural Studies

### LGGA72Y3 - Intensive Introductory Hindi

This is an intensive elementary course for students with no knowledge of Hindi. It combines the materials taught in both LGGA70H3 and LGGA71H3. Students will 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:** LGGA70H, LGGA71H, HIN212Y, NEW212Y, any prior knowledge of Hindi. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. **Enrolment Limits:** 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute.

## 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 culturallybased 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 Requirements: 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 Requirements: History, Philosophy & Cultural Studies

### LGGA76Y3 - Intensive Introductory Tamil

An intensive 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:** LGGA74H3, LGGA75H3, 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: 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute.

### LGGA78Y3 - Intensive Introductory Bengali

This is an elementary course for students with no knowledge of Bengali. Students will learn the Bengali script and sound system in order to start reading and writing in Bengali. The course also develops listening and speaking skills through culturally-based materials. Course materials are enhanced by audio-visual and computer based activities.

**Exclusion:** Any knowledge of Bengali. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute.

### 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 passages.

**Exclusion:** EAS120Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. **Enrolment Limits:** 30 **Breadth Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

### LGGA82Y3 - Intensive Introductory Japanese

This course is an intensive elementary course for those with minimal or no knowledge of Japanese. It combines the materials taught in both LGGA80H3 and LGGA81H3, and builds on proficiency in both language and culture. Language practice includes oral skills for simple daily conversation. Students will also be introduced to the Japanese writing systems and learn to read and write simple passages.

**Exclusion:** LGGA80H, LGGA81H, EAS120Y. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

#### Enrolment Limits: 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute.

## LGGA90Y3 - Intensive Introductory Spanish

This course is an intensive elementary course in written and spoken Spanish, including comprehension, speaking, reading, and writing. It is designed for students who have no previous knowledge of Spanish. The course will develop listening and speaking skills through culturally-based materials, which will be enhanced by audiovisual and computer-based activities.

**Exclusion:** Grade 12 Spanish, LGGA30H, LGGA31H, SPA100Y, native or near-native proficiency in Spanish. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course.

Enrolment Limits: 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute at UTSC.

# LGGA91Y3 - Intensive Introductory Modern Standard Arabic

An introduction to the basic grammar and vocabulary of standard Arabic - the language common to the Arab world. Classroom activities will promote speaking, listening, reading, and writing. Special attention will be paid to reading and writing in the Arabic script.

**Exclusion:** LGGA40H, LGGA41H, ARA212Y, (NMC210Y), NML210Y, Arabic instruction in high school, prior knowledge of spoken Arabic. The instructor has the authority to exclude students whose level of proficiency is unsuitable for the course. **Enrolment Limits:** 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute.

# LGGA95Y3 - Intensive Introduction to a Featured Language

This is an intensive elementary course for students with minimal to no knowledge of the featured language. Students will learn the script and sound system so they may begin to read and write in this language. The course will develop listening and speaking skills through culturally-based materials, which will be enhanced by audiovisual and computer-based activities. Students may not repeat this course for credit, including when the current featured language is different from previous featured languages.

**Exclusion:** Exclusions will vary, dependent on the language offered; students are cautioned that duplicating their studies, whether inadvertently or otherwise, contravenes UTSC academic regulations. **Enrolment Limits:** 35

**Breadth Requirements:** Arts, Literature & Language **Note:** This is a 1.0 credit course that will be offered only in the Summer semesters as part of the Summer Language Institute; it may not be offered every summer. When the course is offered, the featured language and exclusions will be indicated on the Course Timetable.

### 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 and 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 Requirements: Arts, Literature & Language

### LGGB61H3 - Intermediate Mandarin II

A continuation of LGGB60H3.

#### Prerequisite: LGGB60H3

**Exclusion:** All EAS and CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language courses except LGGB60H3, LGGA64H3, and (LGGB64H3). All 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 Requirements: 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 topically 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 LGGA64H3 and LGGA65H3.

**Prerequisite:** LGGA65H3 or (LGGA63H3) or equivalent **Exclusion:** All EAS and CHI 200- and higher level language 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 Requirements: Arts, Literature & Language

### LGGB63H3 - Intermediate Mandarin for Heritage Students II

A continuation of LGGB62H3.

Prerequisite: LGGB62H3

**Exclusion:** All EAS and CHI 200- and higher level language Chinese courses; all B- and higher level LGG Chinese language courses except LGGB62H3. **Enrolment Limits:** 30

Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 and EAS200Y Enrolment Limits: 30 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: History, Philosophy & Cultural Studies

# LGGC64H3 - Reading Chinese: China from the Inside Out

Intended for students who read Chinese and English well. Complexsimplified character conversion and vice versa, as well as English-Chinese and Chinese-English bilingual texts are emphasized through reading, discussion, and translation in a variety of topics from, and outside of, Greater China, presentations, translation comparison, translation, 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 Requirements:** Arts, Literature & Language **Note:** LGGC64H3 may be taken before or after LGGC65H3. This course is bilingual. Priority will be given to students enrolled in the Minor in English to Chinese Translation program.

# LGGC65H3 - Reading Chinese: Global Perspectives

Designed for students who read Chinese and English well. Complexsimplified Chinese character conversion and vice versa, as well as English-Chinese and Chinese-English bilingual texts are emphasized through reading, discussion, and translation in a variety of topics from global perspectives, presentations, translation and translation comparison, and essay writing.

#### 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 Requirements:** History, Philosophy & Cultural Studies **Note:** This course is bilingual. Priority will be given to students enrolled in the Minor in English to Chinese Translation.

### 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: (EAS206Y), EAS306Y, EAS358Y1, EAS458Y1, CHI311H5

Enrolment Limits: 30

**Breadth Requirements:** Arts, Literature & Language **Note:** A working knowledge of modern Chinese is assumed. This course may be taken before or after LGGC67H3. Priority will be given to students enrolled in the Minor in English to Chinese Translation.

### 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: (EAS206Y), (EAS306Y), EAS358Y1, EAS458Y1, CHI311H5

#### Enrolment Limits: 30

**Breadth Requirements:** History, Philosophy & Cultural Studies **Note:** A working knowledge of modern Chinese is assumed. This course may be taken before or after LGGC66H. Priority will be given to students enrolled in the Minor in English to Chinese Translation.

### LGGC70H3 - 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 and LGGB71H3] Exclusion: Not for students educated in India. Enrolment Limits: 25 Breadth Requirements: Arts, Literature & Language

# Linguistics

#### **Faculty List**

- B. Armstrong, H.B.Sc., M.A. (Toronto), M.Sc., Ph.D. (Carnegie Mellon), Assistant Professor
- 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
- <u>K. McCrindle</u>, 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), Professor Emeritus
- 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 (<u>cfldirector@utsc.utoronto.ca</u>) Associate Director: Yoonjung Kang (<u>kang@utsc.utoronto.ca</u>)

For curriculum inquires, 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 first year course selection

Students intending to complete the Specialist Program in Psycholinguistics should include the following in their first year course selection: <u>LINA01H3</u>, <u>LINA02H3</u>, <u>PSYA01H3</u>, <u>PSYA02H3</u>. Students intending to complete the Specialist or Major Program in Linguistics should include <u>LINA01H3</u> and <u>LINA02H3</u> and should consider including a language course. Students intending to complete the Minor Program in Linguistics should include <u>LINA02H3</u>.

Students considering graduate studies in Speech Language Pathology should consider taking 1.0 credit in physiology during their undergraduate studies or consult the admissions requirements for any graduate program in Speech Language Pathology they may be interested in to build recommended courses into their undergraduate studies. Students should also be aware that completing these requirements will require undertaking all necessary pre-requisites.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *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

LINB19H3 Computers in Linguistics LINB29H3 Quantitative Methods in Linguistics PLIC24H3 First Language Acquisition PLIC25H3 Second Language Acquisition PLIC55H3 Psycholinguistics PLIC75H3 Language and the Brain PLID34H3 The Psycholinguistics of Reading PLID4H3 Acquisition of the Mental Lexicon PLID50H3 Speech Perception PLID74H3 Language and Aging

3. 1.0 credit of language study in one or more languages, which may include <u>LINB60H3</u> or <u>LINB62H3</u> or <u>LINC61H3</u>; ECT, FRE or LGG courses or language courses at another campus.

4. A further 2.0 credits in any LIN, PLI, JAL or JLP courses.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN LINGUISTICS (ARTS)

### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Linguistics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Linguistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

## **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>LINA01H3</u> and <u>LINA02H3</u>, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

## Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Linguistics.

## **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Linguistics and have completed at least 9.0 credits, including <u>LINB06H3</u> and <u>LINB09H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

## Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## SPECIALIST PROGRAM IN PSYCHOLINGUISTICS (ARTS)

For curriculum inquiries, contact the CFL Undergraduate Assistant: cfl-ua@utsc.utoronto.ca

#### **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. 5.0 credits as follows:

LINA01H3 Introduction to Linguistics LINA02H3 Applications of Linguistics PSYA01H3 Introduction to Biological and Cognitive Psychology PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology LINB04H3 Phonology I LINB06H3 Syntax I LINB09H3 Phonetics: The Study of Speech Sounds LINB29H3 Quantitative Methods in Linguistics PLIC24H3 First Language Acquisition PLIC55H3 Psycholinguistics

#### 2. 1.5 credits from the following:

<u>LINB10H3</u> Morphology <u>LINB20H3</u> Sociolinguistics <u>LINC02H3</u> Phonology II <u>LINC11H3</u> Syntax II <u>LINC12H3</u> Semantics: The Study of Meaning

#### 3. 2.5 credits from the following:

<u>LINB62H3</u> Structure of American Sign Language <u>LIND09H3</u> Phonetic Analysis <u>PLIC25H3</u> Second Language Acquisition <u>PLID34H3</u> Psycholinguistics of Reading <u>PLID44H3</u> Acquisition of the Mental Lexicon <u>PLID50H3</u> Speech Perception <u>PLID74H3</u> Language and Aging

#### 4. 1.5 credits from the following:

<u>BIOA11H3</u> Introduction to the Biology of Humans <u>BIOB35H3</u> Essentials of Human Physiology <u>LINB19H3</u> Computers in Linguistics <u>PLIC54H3</u> Speech Physiology and Speech Disorders in Children and Adults <u>PLIC75H3</u> Language and the Brain <u>PLID56H3</u> Special Topics in Language Disorders in Children <u>PSYB20H3</u> Introduction to Developmental Psychology [<u>PSYB51H3</u> Introduction to Perception *or* <u>PSYB57H3</u> Introduction to Cognitive Psychology] (<u>PSYB65H3</u>) Human Brain and Behaviour <u>PSYC21H3</u> Advanced Developmental Psychology

### 5. 2.0 further credits in LIN and/or PLI

**Note:** students interested in pursuing Speech Language Pathology as an option for graduate studies should complete <u>BIOA11H3</u> and <u>BIOB35H3</u> (of component 4 of the program requirements) in order to satisfy a portion of the physiology requirement necessary for admissions.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN PSYCHOLINGUISTICS (ARTS)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Psycholinguistics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Psycholinguistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>LINA01H3</u> and <u>LINA02H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Psycholinguistics.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Psycholinguistics and have completed at least 7.0 credits, including LINB06H3 and LINB09H3.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are

recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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. 2.5 credits as follows:

<u>LINA01H3</u> Introduction to Linguistics <u>LINA02H3</u> Applications of Linguistics <u>LINB04H3</u> Phonology I <u>LINB06H3</u> Syntax I <u>LINB09H3</u> Phonetics: The Study of Speech Sounds

## 2. 0.5 credit from the following:

<u>LINB10H3</u> Morphology <u>LINB20H3</u> Sociolinguistics <u>LINC12H3</u> Semantics: The Study of Meaning

3. 4.0 further credits in LIN and/or PLI, of which at least 2.0 credits must be at the C- or D-level.

4. 1.0 credit of language study in one or more languages, which may include ECT, FRE, or LGG courses; language courses at another campus; <u>LINB60H3</u> or <u>LINB62H3</u> or <u>LINC61H3</u>.

# MAJOR (CO-OPERATIVE) PROGRAM IN LINGUISTICS (ARTS)

### Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Psycholinguistics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Psycholinguistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

## **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including <u>LINA01H3</u> and <u>LINA02H3</u>, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Linguistics.

## **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Linguistics and have completed at least 9.0 credits, including LINB06H3 and LINB09H3.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

## Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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.

**1. 1.0 credit as follows:** <u>LINA01H3</u> Introduction to Linguistics <u>LINA02H3</u> Applications of Linguistics

#### 2. 1.0 credit from the the following:

<u>LINB04H3</u> Phonology I <u>LINB06H3</u> Syntax I <u>LINB09H3</u> Phonetics: The Study of Speech Sounds <u>LINB10H3</u> 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), LIN101H, LIN102H **Breadth Requirements:** 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), LIN101H, LIN102H Breadth Requirements: Arts, Literature & Language

# LINB04H3 - Phonology I

Practice in analysis of sound patterns in a broad variety of languages.

Prerequisite: LINB09H3 Exclusion: LIN229H Breadth Requirements: Social & Behavioural Sciences

## LINB06H3 - Syntax I

Practice in analysis of sentence structure in a broad variety of languages.

Prerequisite: LINA01H3 Exclusion: LIN232H Breadth Requirements: History, Philosophy & Cultural Studies

# LINB09H3 - Phonetics: The Study of Speech Sounds

An examination of physiological and acoustic bases of speech.

Prerequisite: LINA01H3 Exclusion: LIN228H Breadth Requirements: Natural Sciences

## LINB10H3 - Morphology

Core issues in morphological theory, including properties of the lexicon and combinatorial principles, governing word formation as they apply to French and English words.

Prerequisite: LINA01H3 Corequisite: LINB04H3 and LINB06H3 Exclusion: LIN231H, LIN333H, (LINB05H3), (LINC05H3) FRE387H, (FREC45H3) Breadth Requirements: Social & Behavioural Sciences

# LINB13H3 - Language Diversity and Language Universals

An introduction to linguistic typology with special emphasis on cross-linguistic variation and uniformity in morphology and syntax.

Prerequisite: LINB04H3 Exclusion: LIN306H Breadth Requirements: Arts, Literature & Language

## LINB18H3 - English Grammar

Description and analysis of the structure of English, including the sentence and word structure systems, with emphasis on those distinctive and characteristic features most of interest to teachers and students of the language.

Exclusion: LIN204H Breadth Requirements: Arts, Literature & Language

# LINB19H3 - Computers in Linguistics

The course will provide an introduction to the use of computer theory and methods to advance the understanding of computational aspects of linguistics. It will provide basic training in computer programming techniques employed in linguistics such as corpus mining, modifying speech stimuli, experimental testing, and data analysis.

#### Prerequisite: LINA02H3

Exclusion: Any computer science course except [CSCA20H3, PSYC03H3] Breadth Requirements: Quantitative Reasoning Note: Priority will be given to students in Specialist/Specialist Co-op programs in Linguistics or Psycholinguistics, or Major/Major Co-op programs in Linguistics. Students in the Minor program in Linguistics, followed by students in other programs, will be admitted as space permits.

# LINB20H3 - Sociolinguistics

The study of the relationship between language and society. Topics include: how language reflects and constructs aspects of social identity such as age, gender, socioeconomic class and ethnicity; ways in which social context affects speakers' use of language; and social factors which cause the spread or death of languages.

Prerequisite: LINA02H3 Exclusion: (LINB21H3), (LINB22H3), LIN251H, LIN256H, FREC48H3 Breadth Requirements: Social & Behavioural Sciences

# LINB29H3 - Quantitative Methods in Linguistics

An introduction to experimental design and statistical analysis for linguists. Topics include both univariate and multivariate approaches to data analysis for acoustic phonetics, speech perception, psycholinguistics, language acquisition, language disorders, and sociolinguistics.

Prerequisite: LINA02H3 Exclusion: LIN305H, (PLIC65H3), PSYB07H3, STAB23H3 Recommended Preparation: LINB19H3 Breadth Requirements: Quantitative Reasoning

## LINB60H3 - Structure of Chinese

An introduction to the phonetics, morphology, syntax, semantics, discourse and various writing styles in the Chinese language. Students will use the tools of linguistic analysis learned in prior courses to examine the structural and related key properties of Chinese.

Prerequisite: LINB06H3 Exclusion: (LINC60H3) Breadth Requirements: Arts, Literature & Language Note: Students are expected to be proficient in Chinese and English.

# LINB62H3 - Structure of American Sign Language

An introduction to the structure of American Sign Language (ASL): Comparison to spoken languages and other signed languages, together with practice in using ASL for basic communication.

Prerequisite: LINA01H3 and LINA02H3 Exclusion: (LINA10H3) Enrolment Limits: 35 Breadth Requirements: Social & Behavioural Sciences

## LINB98H3 - Supervised Introductory Research in Linguistics

This course provides an introduction to, and experience in, ongoing theoretical and empirical research in any field of linguistics. Supervision of the work is arranged by mutual agreement between student and instructor.

**Prerequisite:** 4.0 credits including [LINA01H3 or LINA02H3], and a CGPA of 3.3 **Exclusion:** ROP299Y

**Recommended Preparation:** 0.5 credit at the B-level in LIN or PLI courses

**Enrolment Limits:** Enrolment is limited based on the research opportunities available with each faculty member and the interests of the students.

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Students must complete and submit a permission form available from the Registrar's Office, along with an outline of work to be performed, signed by the intended supervisor.

Priority will be given to students enrolled in the Specialist/Specialist Co-op programs in Linguistics or Psycholinguistics, and the Major/Major Co-op programs in Linguistics.

## LINC02H3 - Phonology II

Basic issues in phonological theory. This course assumes familiarity with phonetic principles, as discussed in LINB09H3, and with phonological problem-solving methods, as discussed in LINB04H3.

Prerequisite: LINB04H3 and LINB09H3 Exclusion: LIN322H Breadth Requirements: Social & Behavioural Sciences

# LINC11H3 - Syntax II

Core issues in syntactic theory, with emphasis on universal principles and syntactic variation between French and English. Same as FREC46H3

Prerequisite: LINB06H3 or FREB45H3 Exclusion: LIN232H, LIN331H, FRE378H, FREC46H3 Breadth Requirements: History, Philosophy & Cultural Studies

# 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, LIN247H, LIN341H, (FREC49H3), (FRED49H3) Breadth Requirements: 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 Requirements:** 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 FREC47H3.

Prerequisite: [LINA01H3 and LINA02H3] or [FREB44H3 and FREB45H3] Exclusion: FREC47H3, LIN366H Breadth Requirements: Arts, Literature & Language

# LINC61H3 - Structure of a Language

An introduction to the phonetics, phonology, wordformation 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: LINB04H3 and LINB06H3 Exclusion: LIN409H Breadth Requirements: 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 Undergraduate Assistant for Linguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in LIN courses and permission of the supervising 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 Undergraduate Assistant for Linguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in LIN courses and permission of the supervising 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 1.0 credit at the C-level in LIN courses and permission of the supervising 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 Undergraduate Assistant for Linguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in LIN courses and permission of the supervising instructor **Exclusion:** LIN495Y

## LIND09H3 - Phonetic Analysis

Practical application of phonetic theory with special emphasis on instrumental and experimental techniques.

Prerequisite: LINB09H3 and LINB29H3 Exclusion: LIN423H, (LINC09H3) Breadth Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: 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 and FREB45H3]] Exclusion: (LINB25H3), ( PLIB25H3) Breadth Requirements: 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 Requirements: 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 Corequisite: LINB29H3 Exclusion: JLP374H Breadth Requirements: 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 Requirements: 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 Undergraduate Assistant for Psycholinguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in PLI courses and permission of the supervising 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 Undergraduate Assistant for Psycholinguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in PLI courses and permission of the supervising 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 Undergraduate Assistant for Psycholinguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in PLI courses and permission of the supervising 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 Undergraduate Assistant for Psycholinguistics for further information.

**Prerequisite:** At least 1.0 credit at the C-level in PLI courses and permission of the supervising instructor **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 and FREB45H3]] and [PLIC24H3 or (PLIB25H3)] **Exclusion:** (LINC34H3), (PLIC34H3) **Breadth Requirements:** 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 Requirements: 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: LINB29H3 and PLIC55H3 Exclusion: (PLIC15H3) Breadth Requirements: Social & Behavioural 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) **Breadth Requirements:** Natural Sciences

# PLID74H3 - Language and Aging

A seminar-style course on language and communication in healthy and language-impaired older adults. The course covers normal age-related neurological, cognitive, and perceptual changes impacting language, as well as language impairments resulting from dementia, strokes, etc. Also discussed are the positive aspects of aging, bilingualism, ecologically valid experimentation, and clinical interventions.

**Prerequisite:** PLIC24H3 and PLIC55H3 **Breadth Requirements:** Natural Sciences

# Management

#### **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
- <u>D. Chau</u>, B.Com. (Toronto), M.B.A. (McMaster), Ph.D. (HKUST), CPA, CMA., Associate Professor, Teaching Stream
- <u>L. H. Chen</u>, 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
- <u>B. Connelly</u>, B.A. (Emory), Ph.D. (Minnesota), Associate Professor
- <u>S. L. Daga</u>, 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
- L. Harvey, B.B.A. (Toronto), MAcc (Brock). CPA, CA, Associate Professor, Teaching Stream
- 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
- <u>S. Maglio III</u>, B.A., Stanford University (USA), Ph.D. (New York), Assistant Professor
- C. Martineau, B.Com. (Concordia), M.Sc., (HEC Montreal), Ph.D., (UBC), 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. (Dartmough College), Ph.D. (Duke University), Assistant Professor
- R. Shalev, LLB. (Hebrew University), E.M.BA. (Northwestern University & Tel-Aviv University Economics), M.Phil., Ph.D. (Columbia Business School), Associate Professor
- A. Stark, B.A. (U.B.C.), M.Sc. (London), M.A., Ph.D. (Harvard), Professor
- J. Trougakos, B.S., M.B.A. (Oklahoma State), Ph.D. (Purdue), AssociateProfessor
- 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 or Specialist (Co-operative) Programs in Management. The Department of Management also offers a Certificate Program in Business. For more information, see Section 6A.4 (Certificate Program in Business) of this *Calendar*.

#### **Management Programs**

We admit 500 students each year to the Specialist and Specialist (Co-operative) Programs in Management.

1. Most students are admitted directly from high school.

2. Also a small number of students may be admitted at the end of first year. The first round of admissions takes place at the end of the Winter session of their first year. The second round of admissions takes place at the end of the following Summer session. There are a limited number of places in the B.B.A. available to students beyond these two application periods. Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits are not eligible 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 and Career Centre (AC213), to explore alternative program options.

Students must request only **ONE** Management program. Students who request a Management Co-op Subject POSt are automatically considered for non-Co-op Management programs.

Students enrolled in a B.B.A. program offered by the Department of Management are not permitted to enrol in either the Major Program in Economics for Management Studies or the Minor Program in Economics for Management Studies.

#### **Management Courses**

There are enrolment limits on most Management courses including those given in the Summer session.

#### Prerequisites

Students are responsible for ensuring that they have the prerequisites for all Management courses. Students who register for courses for which they do not have the appropriate prerequisites are denied access to those courses. A Standing Deferred (SDF) in a course does not meet the prerequisite for the subsequent course.

#### Overall course load limit for B.B.A. students

Students may take a maximum of 3.0 credits per semester. On occasion, B.B.A. students who have completed at least 12.0 credits and who have a CGPA of at least 3.5 may be permitted into an additional 0.5 credit course. Requests to add an additional course must be made in writing to the Management Academic Director at <u>mgmtss@utsc.utoronto.ca</u>. 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.

#### Notes:

1. Approval of a request to add a course outside Management and Economics does not guarantee a place in the course. Requests from students who do not meet the above criteria will not be considered.

2. UTSC Management courses are not open to students from other campuses. Similarly, St. George Rotman Commerce courses and UTM Management courses are not open to UTSC students.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

#### **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 credits in Economics for Management Studies:

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 MGEB1H3/(ECMB1H3) Quantitative Methods in Economics I MGEB12H3/(ECMB12H3) Quantitative Methods in Economics II MGEC02H3/(ECMC02H3) Topics in Price Theory MGEC06H3/(ECMC06H3) Topics in Macroeconomics Theory MGEC11H3/(ECMC11H3) Introduction to Regression Analysis <u>MGED02H3/(ECMD13H3)</u> Advanced Microeconomic Theory <u>MGED06H3/(ECMD14H3)</u> Advanced Macroeconomic Theory <u>MGED11H3/(ECMD10H3)</u> Theory and Practice of Regression Analysis <u>MGED50H3/(ECMD50H3)</u> Workshop in Economic Research, and two additional full credits in Economics for Management Studies including at least one at the C-level [excluding <u>MGEC91H3/(ECMC91H3), MGEC92H3/(ECMC92H3), MGEC93H3/(ECMC93H3)]</u>.

#### 2. (1.0 credit):

[<u>MATA32H3</u> and <u>MATA33H3</u>] strongly recommended, or [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3].

#### 3. (7.0 to 8.0 credits, depending on the combination of courses completed):

MGMA01H3/(MGTB04H3) Principles of Marketing

<u>MGTA05H3</u> Foundations of Business Management or [<u>MGTA01H3/(MGTA03H3)</u> and <u>MGTA02H3/(MGTA04H3)</u>] [<u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> 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

#### 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

MGSD24H3/(MGSC24H3/MGTC39H3) New Venture Creation and Planning

MGSC30H3/(MGTC31H3) The Legal Environment of Business I

**Note:** In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN ECONOMICS FOR MANAGEMENT STUDIES (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: Iris Au E-mail: <u>ecoss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Economics for Management Studies is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

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. 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.

The 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School*Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Economics for Management Studies.

#### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

### **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 [<u>MGTA01H3/(MGTA03H3)</u> and <u>MGTA02H3/(MGTA04H3)</u>] [<u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or (<u>MGTC36H3)</u>] (<u>MGAB01H3/(MCTR05H3)</u>]

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):

[<u>MATA32H3</u> and <u>MATA33H3</u>] 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

MGSD24H3/(NGSC24H3/MGTC39H3) New Venture Creation and Planning

MGSC30H3/(MGTC31H3) The Legal Environment of Business I

### 4. (4.0 credits):

MGEA02H3/(ÉCMA04H3) 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

1 full credit of C-level Economics for Management Studies courses [excluding <u>MGEC91H3</u>/(<u>ECMC91H3</u>), <u>MGEC92H3</u>/(<u>ECMC93H3</u>/(<u>ECMC93H3</u>)]

## 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 section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Economics.

The 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management.

#### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this Calendar.

# SPECIALIST PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca

This Program is designed students 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 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.
Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School Students must complete the following courses in their first year of study: MGTA05H3, MGEA02H3, MGEA06H3, MATA32H3, MATA33H3, MGAB01H3, MGAB02H3, MGMA01H3 and MGTA35H3.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): MGTA01H3, MGTA02H3, MGEA02H3, MGEA06H3, MATA32H3, and MATA33H3. [MATA32H3 and MATA33H3] are strongly recommended, however [MATA29H3/A30H3/A31H3 and MATA35H3/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

### **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):

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

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 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)]

#### 4. (4.0 credits):

<u>MGAC01H3/(MGTC07H3)</u> Intermediate Financial Accounting I <u>MGAC02H3/(MGTC08H3)</u> Intermediate Financial Accounting II <u>MGAC03H3/(MGTC06H3)</u> Intermediate Management Accounting <u>MGSC30H3/(MGTC11H3)</u> The Legal Environment of Business I <u>MGAC70H3/(MGTC11H3)</u> Canadian Income Taxation I <u>MGAC70H3/(MGTC11H3)</u> Management Information Systems [<u>MGAC10H3</u> or (<u>MGAD10H3)/(MGTD60H3)</u> Auditing] <u>MGAD70H3/(MGTD56H3)</u> Advanced Accounting Case Analysis: A Capstone Course

#### 5. At least one D-level course (0.5 credit) from:

<u>MGAD20H3/(MGTD61H3)</u> Advanced Auditing <u>MGAD40H3/(MGTD54H3)</u> Management Control Systems <u>MGAD45H3/(MGSC40H3)</u> Corporate Governance and Strategy: CPA Perspective <u>MGAD50H3/(MGTD50H3)</u> Advanced Financial Accounting [<u>MGAD65H3</u> or (<u>MGAC60H3)/(MGTC17H3</u>) Canadian Income Taxation II]

#### Notes:

1. In selecting options and electives, students should refer to the guidelines for program breadth and depth found in tsection <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

### 2. The Chartered Professional Accountancy (CPA) requirements:

Students interested in the CPA designation must also complete: <u>MGAD40H3/(MGTD54H3)</u> Management Control Systems, <u>MGAD50H3/(MGTD50H3)</u> Advanced Financial Accounting, <u>MGAD65H3/(MGAC60H3)</u> Canadian Income Taxation II, <u>MGAD20H3/(MGTD61H3)</u> Advanced Auditing and <u>MGAD45H3/(MGSC40H3)</u> Corporate Governance and Strategy: CPA Perspective.

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: <u>http://www.cpaontario.ca/Students/CPAcertification/PreReqEdu/1014page18269.aspx</u>

# SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND ACCOUNTING (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and Accounting is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This Program is designed for students 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 Program provides students with the personal and professional attributes necessary to build a successful career in senior management.

The 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.

The 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.

### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

## **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management and Accounting.

## **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this Calendar.

# SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed Email: mgmtss@utsc.utoronto.ca

This Program builds on the core of the Specialist in Management Program and offers a deeper and wider coverage of Finance topics. The Program 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

## **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 [( <u>MGTA01H3</u>/ <u>MGTA03H3</u>) and ( <u>MGTA02H3</u>/ <u>MGTA04H3</u>)] [ <u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or ( <u>MGTC36H3</u>)]

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):

[<u>MATA32H3</u> and <u>MATA33H3</u>] 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

MGSD24H3/(MGSC24H3/MGTC39H3) New Venture Creation and Planning

MGSC30H3/(MGTC31H3) The Legal Environment of Business I

## 4. (4.0 credits):

<u>MGEA02H3/(ECMA04H3)</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u>/(<u>ECMA06H3</u>) Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3/(ECMB02H3</u>) Price Theory: A Mathematical Approach <u>MGEB06H3</u>/(<u>ECMB06H3</u>) Macroeconomic Theory and Policy: A Mathematical Approach <u>MGEB11H3</u>/(<u>ECMB11H3</u>) Quantitative Methods in Economics I <u>MGEB12H3</u>/(<u>ECMB12H3</u>) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding <u>MGEC91H3</u>/(<u>ECMC91H3</u>), <u>MGEC92H3</u>/ (<u>ECMC92H3</u>), <u>MGEC93H3</u>/(<u>ECMC93H3</u>)]

## 5. (1.0 credit):

<u>MGFC30H3</u>/(<u>MGTC71H3</u>) Introduction to Derivative Markets <u>MGFD10H3</u>/(<u>MGTD75H3</u>) Investments

## 6. At least 2.0 full credits from:

<u>MGEC71H3/(ECMC48H3)</u> Money and Banking <u>MGFC20H3/(MGTC70H3)</u> Personal Financial Management <u>MGFC50H3/(MGTC76H3)</u> International Financial Management <u>MGFC60H3</u>/(<u>MGTC77H3</u>) Financial Statement Analysis & Security Valuation <u>MGFD15H3</u> Special Topics in Finance: Private Equity <u>MGFD30H3</u>/(<u>MGTD78H3</u>) Risk Management <u>MGFD40H3</u>/(<u>MGTD73H3</u>) Investor Psychology & Behavioural Finance <u>MGFD50H3</u>/(<u>MGTD72H3</u>) Mergers & Acquisitions: Theory & Practice <u>MGFD60H3</u>/(<u>MGTD77H3</u>) Financial Modelling & Trading Strategies <u>MGFD70H3</u>/(<u>MGTD71H3</u>) Advanced Financial Management

**Note:** In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND FINANCE (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and Finance is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This program builds on the core of the Specialist and Specialist Co-op Programs in Management, and offers a deeper and wider coverage of Finance topics. The Program 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.

The 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not

designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management and Finance.

#### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 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 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.

### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

### **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

<u>MGTA05H3</u> Foundations of Business Management or [(<u>MGTA01H3</u>/<u>MGTA03H3</u>) and (<u>MGTA02H3</u>/<u>MGTA04H3</u>)] [<u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or (<u>MGTC36H3</u>)]

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]

[ <u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/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)
 Narrative and Management

 MGSC20H3/(
 MGTC19H3)
 Consulting and Contracting: New Ways of Work

 MGSB22H3/(
 MGSC22H3/
 MGTC38H3)
 Entrepreneurship

 MGSD24H3/(
 MGSC24H3/
 MGTC39H3)
 New Venture Creation and Planning

 MGSC30H3/(
 MGTC31H3)
 The Legal Environment of Business I

4. (4.0 credits):

<u>MGEA02H3/(ECMA04H3)</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3/(ECMA06H3)</u> Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3/(ECMB02H3)</u> Price Theory: A Mathematical Approach <u>MGEB06H3/(ECMB06H3)</u> Macroeconomic Theory and Policy: A Mathematical Approach <u>MGEB11H3/(ECMB11H3)</u> Quantitative Methods in Economics I <u>MGEB12H3/(ECMB12H3)</u> Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding <u>MGEC91H3/(ECMC91H3), MGEC92H3/</u>( <u>ECMC92H3), MGEC93H3/(ECMC93H3)]</u>

5. (3.0 credits):

<u>MGHC53H3/(MGTC53H3)</u> Introduction to Industrial Relations <u>MGHD24H3/(MGTD24H3)</u> Occupational Health and Safety Management <u>MGHD25H3/(MGTD25H3)</u> Human Resources Recruitment & Selection <u>MGHD26H3/(MGTD26H3)</u> Training and Development <u>MGHD27H3/(MGTD27H3)</u> Human Resources Planning and Strategy <u>MGHD28H3/(MGTD28H3)</u> Compensation

**Note:** In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND HUMAN RESOURCES (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and Human Resources is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This program 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 Program, you will cover the nine required CHRP courses.

The 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management and Human Resources.

#### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): <u>COPD07Y3</u>.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 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 is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>CSCA08H3</u>, <u>CSCA48H3</u>, <u>CSCA67H3</u> and [[<u>MATA32H3</u> & <u>MATA33H3</u>] or [<u>MATA30H3</u> & <u>MATA37H3</u>]], <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

#### **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

<u>MGTA05H3</u> Foundations of Business Management or [( <u>MGTA01H3</u>/ <u>MGTA03H3</u>) and ( <u>MGTA02H3</u>/ <u>MGTA04H3</u>)] [ <u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or ( <u>MGTC36H3</u>)]

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):

[<u>MATA32H3</u> and <u>MATA33H3</u>], strongly recommended or [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/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

MATA22H3 Linear Algebra I for Mathematical Sciences MATB24H3 Linear Algebra II

#### 4. (4.0 credits):

<u>MGEA02H3</u>/(<u>ECMA04H3</u>) Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u>/(<u>ECMA06H3</u>) Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u>/(<u>ECMB02H3</u>) Price Theory: A Mathematical Approach <u>MGEB06H3</u>/(<u>ECMB06H3</u>) Macroeconomic Theory and Policy: A Mathematical Approach

### <u>MGEB11H3</u>/(<u>ECMB11H3</u>) Quantitative Methods in Economics I <u>MGEB12H3</u>/(<u>ECMB12H3</u>) Quantitative Methods in Economics II and 1 full credit of C-level Economics for Management Studies courses [excluding <u>MGEC91H3</u>/(<u>ECMC91H3</u>), <u>MGEC92H3</u>/ (<u>ECMC92H3</u>), <u>MGEC93H3</u>/(<u>ECMC93H3</u>)]

### 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 section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND INFORMATION TECHNOLOGY (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and Information Technology is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This program is designed to give students a broad exposure to all functional areas of Management as well as a solid grounding in Computer Science.

The 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.

### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>CSCA08H3</u>, <u>CSCA08H3</u>, <u>CSCA08H3</u>, <u>CSCA07H3</u>, and [[ <u>MATA32H3</u> and <u>MATA33H3</u>] or [ <u>MATA30H3</u> and <u>MATA37H3]</u>], <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however

[<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

## **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management and Information Technology.

## **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]], MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this Calendar.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND INTERNATIONAL BUSINESS (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: Hugh Laurence Email: <u>mibss@utsc.utoronto.ca</u> Program Director: C. Arsenault Email: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and International Business (MIB) is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as accounting, public administration, communications, economic development, finance, human resources/personnel, information systems, marketing, policy, strategic planning and entrepreneurship.

This Specialist (Co-operative) Program in Management and International Business 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.

The 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. At least one of the work terms and one of the study terms must be outside of Canada. 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.

### **Enrolment Requirements**

Enrolment in this 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. 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 section 6B.5 (Cooperative Programs) in this Calendar and the MIB section of the Management website: http://www.utsc.utoronto.ca/~mgmt/ManagementInternationalBusinessProgram...

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGIA01H3</u>, <u>MGIB02H3</u>, and <u>MGTA36H3</u>.

Course Guidelines for Students Admitted to B.B.A. Co-op Programs from other UTSC Programs Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

## CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

## **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)] MGAB01H3/(MGTB05H3) Introductory Financial Accounting I MGIB01H3/(MGTD19H3) Global Marketing MGAB02H3/(MGTB06H3) Introductory Financial Accounting II MGIB02H3/(MGTB25H3) International Organizational Behaviour MGAB03H3/(MGTB03H3) Introductory Management Accounting MGFB10H3/(MGTB09H3) Principles of Finance MGIB12H3/(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:

[<u>MATA32H3</u> and <u>MATA33H3</u>] strongly recommended, or [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3]

## 3. 3.0 credits in Economics for Management Studies as follows:

<u>MGEA02H3</u>/(<u>ECMA04H3</u>) Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u>/(<u>ECMA06H3</u>) Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u>/(<u>ECMB02H3</u>) Price Theory: A Mathematical Approach

<u>MGEB06H3</u>/(<u>ECMB06H3</u>) Macroeconomic Theory and Policy: A Mathematical Approach <u>MGEB11H3</u>/(<u>ECMB11H3</u>) 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.

#### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD08Y3.

Note: the first work term will likely be in Canada.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

#### International Work and Study Term Requirements

Students are required to complete at least one work term outside of 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.

Students are also required to complete one study term outside of Canada, typically in their third year with an approved partner University, and may 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.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this *Calendar*.

# SPECIALIST PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: mgmtss@utsc.utoronto.ca

This Program 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

### **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

<u>MGTA05H3</u> Foundations of Business Management or [(<u>MGTA01H3</u>/<u>MGTA03H3</u>) and (<u>MGTA02H3</u>/<u>MGTA04H3</u>)] [<u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or (<u>MGTC36H3</u>)] <u>MGAB01H3/(MGTB05H3</u>) 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/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

<u>MGSB22H3</u>/(<u>MGSC22H3</u>/<u>MGTC38H3</u>) Entrepreneurship <u>MGSD24H3</u>/(<u>MGSC24H3</u>/<u>MGTC39H3</u>) New Venture Creation and Planning <u>MGSC30H3</u>/(<u>MGTC31H3</u>) 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 section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND MARKETING (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Management and Marketing is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

This program 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.

The 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Management and Marketing.

### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

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b) The Management Co-op Work Term Preparation Course (WTPC): <u>COPD07Y3</u>.
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2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 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.

#### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students enrolling directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MATA33H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA35H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

In order to remain in the Program, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 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.

#### **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 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

<u>MGTA05H3</u> Foundations of Business Management or [(<u>MGTA01H3</u>/<u>MGTA03H3</u>) and (<u>MGTA02H3</u>/<u>MGTA04H3</u>)] [<u>MGTA35H3</u> Management Communications for non Co-op or <u>MGTA36H3</u> Management Communications for Co-op or (<u>MGTC36H3</u>)]

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

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 <u>MGEC91H3/(ECMC91H3), MGEC92H3/</u> (<u>ECMC93H3/(ECMC93H3)]</u>

#### 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:

<u>MGSC01H3</u>/(<u>MGTC41H3</u>) Corporate Strategy <u>MGSC03H3</u>/(<u>MGTC42H3</u>) Public Management, or <u>MGSC05H3</u>/(<u>MGTC45H3</u>) 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/(MGEC43H3)/(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 MGSD32H3/(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 MGSD15H3 Managing in the Information Economy MGSD30H3/(MGTD45H3) Intellectual Property Law PPGC66H3 Public Policy Making

*7. (0.5 credit):* <u>MGSD01H3/(MGTD47H3)</u> Senior Seminar in Strategic Management

#### Entrepreneurship Stream (3.5 credits):

**4.** At least 0.5 credit of courses emphasizing strategic management, chosen from: <u>MGSC12H3</u>/(<u>MGTC35H3</u>) Narratives on Management and Organization <u>MGSC14H3</u>/(<u>MGTC59H3</u>) Management Ethics <u>MGSC30H3</u>/(<u>MGTC31H3</u>) 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 section <u>6A.2 (Degree Requirements)</u> of this *Calendar*.

# SPECIALIST (CO-OPERATIVE) PROGRAM IN STRATEGIC MANAGEMENT (BACHELOR OF BUSINESS ADMINISTRATION)

Academic Director: S. Ahmed E-mail: <u>mgmtss@utsc.utoronto.ca</u> Program Director: C. Arsenault E-mail: <u>mgmtcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Strategic Management is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms 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.

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.

The 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.

### **Enrolment Requirements**

Enrolment in this Program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English and Grade 12 Calculus.

*Course Guidelines for Students Admitted to B.B.A. Co-op Programs Directly from High School* Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students requesting admission after first year must request ONLY ONE Management Co-op Subject POSt on ACORN. Students may apply at the end of the Winter semester and/or at the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Normally, the minimum CGPA requirement for Co-op Programs will be higher than for non Co-op Programs. Decisions are made when all grades have been received.

Students must have completed the following courses (or their equivalent): <u>MGTA01H3</u>, <u>MGTA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA29H3</u>/A30H3/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement. None of the courses listed above (or their equivalent) can be designated as CR/NCR. Of the total credits that students have completed when they apply, at least 4.0 credits just in University of Toronto courses that have been graded (i.e., not designated as CR/NCR). Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be considered for admission to the Program.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For

information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

### CGPA Requirement to Remain in the Program

Students whose CGPA falls below 2.5 will be placed on probation; Students whose CGPA falls below 2.3 will be removed from co-op; and Students whose CGPA falls below 2.0 will be removed from all BBA programs. A student may request reinstatement to the non Co-op Specialist Program only, 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.

Most internal admissions to Management Co-op will be done at the end of the Winter term. Based on availability, a small number of students who apply at the end of the Summer term may be admitted.

### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Strategic Management.

### **Co-op Work Term Requirements**

All Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. 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.

Students who apply after first year and are successful in receiving a June offer to any Management Co-op program will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: [<u>MGTA05H3</u> or [<u>MGTA01H3</u> and <u>MGTA02H3]</u>], <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u>, <u>MGTA36H3</u>, <u>MATA32H3</u>, and <u>MATA33H3</u>. [<u>MATA32H3</u> and <u>MATA33H3</u>] are strongly recommended, however [<u>MATA30H3</u>/A31H3 and <u>MATA35H3</u>/A36H3/A37H3] may also be used to satisfy the calculus requirement.

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this Calendar.

# 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 Requirements: 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.

Prerequisite: MGAB01H3/( MGTB05H3) Exclusion: ( MGTB06H3), VPAB13H3, MGT120H, MGT201H, MGT220H, RSM219H, RSM220H Enrolment Limits: 60 Breadth Requirements: 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.

Prerequisite: [[ MGEA02H3/( ECMA04H3) and MGEA06H3/( ECMA06H3)] or [ MGEA01H3/( ECMA01H3) and MGEA05H3/( ECMA05H3)]] and MGAB01H3/( MGTB05H3) Exclusion: ( MGTB05H3) Exclusion: ( MGTB03H3), MGT223H, MGT323H, RSM222H, RSM322H, VPAB13H3 Enrolment Limits: 60 Breadth Requirements: 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).

Prerequisite: Completion of 8.0 credits including MGAB03H3/(MGTB03H3) and MGAB02H3/(MGTB06H3) and [MGTA35H3 or MGTA36H3] Exclusion: (MGTC07H3), MGT224H, MGT322H, RSM221H, RSM320H Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGAC01H3/(MGTC07H3) Exclusion: (MGTC08H3), MGT224H, MGT322H, RSM221H, RSM320H Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGAB03H3/( MGTB03H3) Exclusion: ( MGTC06H3), MGT323H, RSM322H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## 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 Requirements: Social & Behavioural Sciences

# MGAC50H3 - Canadian Income Taxation

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: 60

Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 MGSC30H3 Exclusion: (MGSC40H3) Enrolment Limits: 40 Breadth Requirements: 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: 60 Breadth Requirements: 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 Requirements: Social & Behavioural Sciences

# MGAD65H3 - Canadian Income Taxation

This course is designed to give the student an understanding of the more complex issues of federal income taxation, by applying current tax law to practical problems and cases. Topics include: computation of corporate taxes, corporate distributions, corporate reorganizations, partnerships, trusts, and individual and corporate tax planning.

Prerequisite: MGAC50H3/( MGTC16H3) Exclusion: ( MGAC60H3), ( MGTC17H3), MGT429H, RSM424H Enrolment Limits: 60 Breadth Requirements: 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 Requirements: 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 Requirements: 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: MGEB11H3/(ECMB11H3) and MGAB01H3/(MGTB05H3) and [MGTA35H3 or MGTA36H3] Exclusion: (MGTB09H3), MGT2338H, RSM332H Enrolment Limits: 60 Breadth Requirements: 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 (MGTC03H3) Exclusion: (MGTC09H3), MGT339H, RSM333H Enrolment Limits: 60 Breadth Requirements: 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: (MGTC70H3) Enrolment Limits: 40 Breadth Requirements: 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), MGT438H, RSM435H Enrolment Limits: 50 Breadth Requirements: 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, (MGT439H) Enrolment Limits: 50 Breadth Requirements: 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 Requirements: 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), MGT330H, RSM330H Enrolment Limits: 60 Breadth Requirements: 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: MGAB02H3/(MGTB06H3) and MGFC10H3/(MGTC09H3) Enrolment Limits: 40 Breadth Requirements: 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 Requirements: 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 MGEB12H3/(ECMB12H3) Exclusion: (MGTD73H3), MGT430H Enrolment Limits: 30 Breadth Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## MGFD70H3 - Advanced Financial Management

This course reinforces and expands upon the topics covered in MGFB10H3/(MGTB09H3), (MGTC03H3) 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 Requirements: 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: ( MGTB23H3), ( MGTB29H3), MGIB02H3, ( MGTB27Y3), MGT262H, RSM260H, PSY332H Enrolment Limits: 60 Breadth Requirements: 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 or MGIB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) Exclusion: MGIB12H3/(MGTB22H3), (MGTC22H3), MGT460H, RSM460H Enrolment Limits: 60 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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.

Prerequisite: MGHB12H3/(MGTC22H3) or MGIB12H3 Exclusion: (MGTD24H3) Enrolment Limits: 30 Breadth Requirements: 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 making selection decisions.

Prerequisite: MGHB12H3/(MGTC22H3) or MGIB12H3 Exclusion: (MGTD25H3) Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGHB12H3/(MGTC22H3) or MGIB12H3 Exclusion: (MGTD26H3) Enrolment Limits: 40 Breadth Requirements: Social & Behavioural Sciences

## MGHD27H3 - Human Resources Planning and Strategy

This course is designed to provide students with an understanding of strategic human resources 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.

Prerequisite: MGHB12H3/(MGTC22H3) or MGIB12H3 Exclusion: (MGTD27H3) Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGHB12H3/(MGTC22H3) or MGIB12H3 Exclusion: (MGTD28H3) Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3 Exclusion: (MGTB07H3), MGMA01H3/(MGTB04H3), RSM250H, MGT252H Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGMA01H3/(MGTB04H3) or MGIA01H3/(MGTB07H3) Exclusion: (MGTD19H3) Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: [MGTA01H3/(MGTA03H3) and MGTA02H3(MGTA04H3)] or MGTA05H3 Exclusion: (MGTB25H3), MGHB02H3, (MGTB23H3), (MGTB29H3), (MGTB27Y3), RSM260H Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: MGIB02H3/( MGTB25H3) Exclusion: ( MGTB22H3), MGHB12H3/( MGTC22H3), RSM406H, (MGT460H) Enrolment Limits: 40 Breadth Requirements: 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.

Prerequisite: Minimum of 10.0 credits including MGAB02H3/( MGTB06H3) and MGIA01H3/( MGTB07H3) and MGFB10H3/( MGTB09H3) and MGIB02H3/( MGTB25H3) Exclusion: ( MGTD48H3), MGSC01H3 Enrolment Limits: 40 Breadth Requirements: 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 Requirements: 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 Requirements: 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: Completion of 10.0 credits Exclusion: (MGTD21H3) Enrolment Limits: 40 Breadth Requirements: 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 [ MGEC61H3/( ECMC61H3) or MGEC62H3/( ECMC62H3)] Exclusion: ( MGTD79H3), MGSD01H3 Enrolment Limits: 40 Breadth Requirements: 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: Enrolment in any Bachelor of Business
Administration (BBA) program.
Exclusion: (MGTB04H3), MGIA01H3/(MGTB07H3),
(MGT252H), RSM250H
Enrolment Limits: 60
Breadth Requirements: Social & Behavioural Sciences

## 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 MGIA01H3/(MGTB07H3)] and [MGTA35H3 or MGTA36H3 or (MGTC36H3)] Exclusion: (MGTC05H3), (MGTD20H3) Enrolment Limits: 40 Breadth Requirements: 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), MGT453H, RSM452H Enrolment Limits: 40 Breadth Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

# MGMC12H3 - Advertising: From Theory to Practice

An introduction to the basic communication tools used in planning, implementing and evaluating promotional strategies .The course reviews basic findings of the behavioural 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 Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## MGMC20H3 - Marketing in the Information Age

This course covers the advantages/disadvantages, benefits and limitations of E-commerce. Topics include: Ecommerce 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: (MGTD06H3) Enrolment Limits: 40 Breadth Requirements: Social & Behavioural Sciences

# MGMC30H3 - 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 Requirements: 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 MGEB12H3/(ECMB12H3) Exclusion: (MGTD30H3), MGT455H Enrolment Limits: 30 Breadth Requirements: Quantitative Reasoning

# MGMD02H3 - Judgement and Decision Making

This course combines the elements of behavioural 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 Requirements: 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 MGMB01H3/( MGTC05H3) Enrolment Limits: 20 Breadth Requirements: 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 MGMB01H3/( MGTC05H3) Enrolment Limits: 20 Breadth Requirements: Social & Behavioural Sciences

## MGOC10H3 - Analysis for Decision-Making

The course develops understanding and practical skills of applying quantitative analysis for making better management decisions. Studies methodologies include linear and integer programming; multi-criteria optimization; waiting line models; decision analysis. Methodologies are practiced in a broad range of typical business problems drawn from different areas of management.

Prerequisite: [MATA29H3 or MATA30H3 or MATA31H3 or MATA32H3] and [MATA33H3 or MATA35H3 or MATA36H3 or MATA37H3] and MGEB02H3/(ECMB02H3) and MGEB11H3/(ECMB12H3) and MGEB12H3/(ECMB12H3) and [MGTA36H3 or MGTA35H3] Exclusion: (MGTC74H3) Enrolment Limits: 60 Breadth Requirements: Quantitative Reasoning

## MGOC20H3 - 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 Requirements: Quantitative Reasoning

## MGOD30H3 - Business Data Analytics

The course lays the foundation for big data analysis and predictive analytics via state-of-the-art methodologies and computational tools, and incorporates hands-on case studies. By the end of the course, students will be able to develop data architecture plans to improve decision making in business processes.

Prerequisite: MGOC10H3 Enrolment Limits: 20 Breadth Requirements: Quantitative Reasoning

## MGSB22H3 - 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: MGAB03H3/(MGTB03H3) and

[MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)]

**Exclusion:** (MGSC22H3), (MGTC38H3), MGT493H, RSM493H

Enrolment Limits: 60

Breadth Requirements: Social & Behavioural Sciences

## MGSC01H3 - 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 [MGEB02H3/(ECMB02H3) or MGEB06H3/(ECMB06H3)] Exclusion: (MGTC41H3), MGIC01H3, MGT492H, RSM392H, VPAC13H3 Enrolment Limits: 40 Breadth Requirements: Social & Behavioural Sciences

## MGSC03H3 - 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 POLB50Y3 Exclusion: (MGTC42H3) Enrolment Limits: 35 Breadth Requirements: 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/(MGTA03H3) and MGTA02H3/(MGTA04H3)] or MGTA05H3 or POLB50Y3 Exclusion: (MGTC45H3) Enrolment Limits: 60 Breadth Requirements: 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: MGAB03H3/( MGTB03H3) and MGFB10H3/( MGTB09H3) and [ MGHB02H3 or ( MGTB23H3)] Corequisite: MGMA01H3/( MGTB04H3) and MGAB02H3/( MGTB06H3) Exclusion: ( MGTC37H3) Enrolment Limits: 30 Breadth Requirements: Social & Behavioural Sciences

## **MGSC12H3 - 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: MGHB02H3 or [( MGTB23H3) and ( MGTB29H3)] or ( MGTB27Y3) or [2.0 credits at the Clevel in POL courses] or ENGD94H3 Exclusion: ( MGTC35H3) Enrolment Limits: 35 Breadth Requirements: Arts, Literature & Language

## MGSC14H3 - 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/( MGTA03H3) and MGTA02H3/( MGTA04H3)] or MGTA05H3] and [ MGTA36H3 or MGTA35H3] Exclusion: ( MGTC59H3), MGIC14H3, PHLB06H3 Enrolment Limits: 60 Breadth Requirements: History, Philosophy & Cultural Studies

## 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: MGAB03H3/( MGTB03H3) and [ MGHB02H3 or [( MGTB23H3) and ( MGTB29H3)] or ( MGTB27Y3)] Exclusion: ( MGTC19H3) Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## 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 Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Entrepreneurship stream of the Specialist program in Strategic Management. Additional students will be admitted as space permits.

# 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 credits including MGAB01H3/( MGTB05H3) and MGAB02H3/( MGTB06H3) and [ MGTA36H3 or MGTA35H3] Exclusion: ( MGTC31H3), MGT393H, RSM225H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## MGSC44H3 - International Business Management

This Course deals with: political risk & contingency planning; human threats; weather extremes; NGOs (WTO, IMF and 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: MGHB02H3 or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3) Exclusion: (MGTC44H3), MGT491H, RSM490H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

# MGSC46H3 - 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: MGEB02H3/( ECMB02H3) and MGEB06H3/( ECMB06H3) Exclusion: ( MGTC46H3), MGEC93H3/( ECMC93H3), ECO230Y, ECO364H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## MGSD01H3 - 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 openended 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 Requirements: Social & Behavioural Sciences

## MGSD05H3 - Corporate Strategy: Competitive Advantage

Topics include competitive advantage, organizing for competitive advantage, and failures in achieving competitive advantage. Through case analysis and class discussion, the course will explore competitive positioning, sustainability, globalization and international expansion, vertical integration, ownership versus outsourcing, economies of scale and scope, and the reasons for failure.

#### Prerequisite: MGSC01H3 or MGIC01H3

**Enrolment Limits:** 40. Admission is restricted to students enrolled in a BBA subject POSt.

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Management Strategy stream of the Specialist/Specialist Co-op in Strategic Management.

# MGSD15H3 - Managing in the Information Economy

Topics include identifying, managing and exploiting information assets, the opportunities and limits of dealing with Big Data, the impact of digitalization of information, managing under complexity, globalization, and the rise of the network economy. Students will explore a topic in greater depth through the writing of a research paper.

#### Prerequisite: MGSC01H3 or MGIC01H3

**Enrolment Limits:** 30. Admission is restricted to students enrolled in a BBA subject POSt.

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students enrolled in the Management Strategy stream of the Specialist/Specialist Co-op in Strategic Management and the Strategy and Entrepreneurship specialization of the Specialist Co-op in Management and International Business.

# 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## MGSD32H3 - 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: ( MGSC32H3), ( MGTC32H3), MGT394H, RSM325H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

# MGSD40H3 - Principles of Corporate Social Responsibility

This course will examine the role of business in society including stakeholder rights and responsibilities, current important environmental and social issues (e.g., climate change, ethical supply chains, etc.) and management practices for sustainable development. It is designed for students who are interested in learning how to integrate their business skills with a desire to better society.

**Prerequisite:** Completion of 10.0 credits, including MGTA05H3 or [MGTA01H3 and MGTA02H3] **Enrolment Limits:** 30 **Breadth Requirements:** History, Philosophy & Cultural Studies

## MGTA01H3 - Introduction to Business

This course serves as an introduction to the organizations called businesses. The course looks at how businesses are planned, organized and created, and the important role that businesses play within the Canadian economic system.

Exclusion: MGTA05H3, (MGTA03H3), (COM110H), MGM101H, RSM100Y Breadth Requirements: Social & Behavioural Sciences

# MGTA02H3 - 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), MGM101H, MGM102H, RSM100Y Breadth Requirements: Social & Behavioural Sciences

## MGTA05H3 - 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 Requirements: 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 Requirements: Arts, Literature & Language

## 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 Requirements: Arts, Literature & Language

# MGTB60H3 - Introduction to the Business of Sport

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 Requirements: Social & Behavioural Sciences

# MGTC55H3 - 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 Requirements: Social & Behavioural Sciences

# MGTC56H3 - 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 Requirements: Social & Behavioural Sciences

# MGTD15H3 - 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 Requirements:** 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.

## **Mathematics**

#### **Faculty List**

- <u>S. Aretakis</u>, B.Sc. (Patras), M.Sc., Ph.D. (Cambridge), Assistant Professor
- <u>N. Breuss</u>, B.Sc., M.Sc. (Kharkov), Ph.D. (Moscow), Associate Professor, Teaching Stream
- <u>S. Chrysostomou</u>, 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
- <u>M. Goldstein</u>, 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. Haslhofer, 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
- <u>P. Selick</u>, 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), CLTA Assistant Professor, Teaching Stream
- G. Tiozzo, B.Sc., M.Sc., (dePisa), Ph.D. (Scuola Normale Superiore), Assistant Professor
- <u>B. Virag</u>, B.A. (Harvard), M.A., Ph.D.(Berkeley), Professor

#### Associate Chair: M. Evans evans@utsc.utoronto.ca (416-287-7274)

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.

#### Note on Admission to MAT programs

Beginning in 2018-19 there are admissions criteria for the Mathematics Specialist and Major programs (Non Co-op and Co-op). Details and information on how to apply for admission to these programs is found in the program descriptions below.

## 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 <u>Combined Degree Programs</u> section of this *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

#### **Mathematics Programs**

### SPECIALIST (CO-OPERATIVE) PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies: R. Grinnell, (416-287-5655) Email: <u>grinnell@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Mathematics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Mathematics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Specialist (Co-operative) Program in Mathematics is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program ([ <u>CSCA08H3</u> or <u>CSCA20H3</u>], <u>CSCA67H3</u>/ <u>MATA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u>, and <u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

#### Prospective Co-op Students:

Prospective students (i.e., those not already admitted to a Co-op Degree POSt) may apply to the Co-op Program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program ([CSCA08H3] or CSCA20H3], CSCA67H3/ MATA67H3, MATA22H3, MATA31H3, and MATA37H3). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Mathematics.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Mathematics and have completed at least 10.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

- 1. COPD01H3 Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC
- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: <u>COPD12H3</u> and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.

## SPECIALIST PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies: R. Grinnell (416-287-5655) Email: grinnell@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.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Specialist Program in Mathematics (all streams) is limited.

Students may apply to enter the program after completing 4.0 credits, and must have passed all of the A-level MAT and CSC courses required in the program ([CSCA08H3] or CSCA20H3], CSCA67H3/ MATA67H3, MATA22H3, MATA31H3, and MATA37H3). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information.

#### **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)(\*)

0.5 credits from the following: <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CTLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGA11H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>, <u>ENGB09H3</u>, <u>ENGB17H3</u>, <u>ENGB19H3</u>, <u>ENGB50H3</u>, (<u>ENGB51H3</u>), <u>GGRA02H3</u>, <u>GGRA03H3</u>, <u>GGRB05H3</u>, (<u>GGRB06H3</u>), (<u>HISA01H3</u>), (<u>HLTA01H3</u>), <u>ACMA01H3</u>, (<u>HUMA01H3</u>), (<u>HUMA11H3</u>), (<u>HUMA17H3</u>), (<u>LGGA99H3</u>), <u>LINA01H3</u>, <u>PHLA10H3</u>, <u>WSTA01H3</u>.

(\*) 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] MATA22H3 Linear Algebra I for Mathematical Sciences 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 <u>STAB52H3</u> Introduction to Probablity (\*\*) <u>STAB57H3</u> Introduction to Statistics (\*\*) (\*\*) This course may be taken after second year, except for the Statistics stream.

#### 4. C-level courses (1.0 credit)

<u>MATC01H3</u> Groups and Symmetry <u>MATC34H3</u> 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):

<u>MATC37H3</u> Introduction to Real Analysis <u>MATC46H3</u> Differential Equations II <u>MATD01H3</u> Fields and Groups

#### 6. Courses in key areas of mathematics (1.0 credit):

1.0 credit from the following: <u>MATC15H3</u> Introduction to Number Theory <u>MATC27H3</u> Introduction to Topology <u>MATC63H3</u> Differential Geometry <u>MATD02H3</u> Classical Plane Geometries and their Transformations <u>MATD34H3</u> Complex Variables II

#### 7. Mathematics of computation (1.0 credit):

1.0 credit from the following: <u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>CSCC63H3</u> Computability and Computational Complexity <u>CSCC73H3</u> Algorithm Design and Analysis <u>MATC09H3</u> Introduction to Mathematical Logic <u>MATC32H3</u> Graph Theory and Algorithms for its Applications <u>MATC44H3</u> Introduction to Combinatorics <u>MATD16H3</u> Coding Theory and Cryptography

#### 8. Electives (2.5 credits):

2.5 credits from CSC/MAT/STA/PHY of which at least 1.5 must be at the 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):

<u>MATB61H3</u> Linear Programming and Optimization <u>MATC46H3</u> Differential Equations II <u>MATD01H3</u> Fields and Groups

#### 6. Regression Analysis (0.5 credit):

STAC67H3 Regression Analysis

#### 7. Discrete mathematics and geometry (0.5 credit):

0.5 credit from the following: <u>MATC32H3</u> Graph Theory and Algorithms for its Applications <u>MATC44H3</u> Introduction to Combinatorics MATD02H3 Classical Plane Geometries and their Transformations

#### 8. Upper-level MAT electives (1.0 credit):

1.0 credit from any C- or D-level MAT courses (\*)
 (\*) For students wishing to pursue graduate studies in Mathematics or Statistics it is recommended that <u>MATC37H3</u> be chosen as one of these two courses.

#### 9. Upper-level STA electives (2.0 credits):

2.0 credits from the following: (<u>ACTB47H3</u>) Introductory Life Contingencies Any C- or D-level STA course, excluding <u>STAD29H3</u>

#### 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):

0.5 credit from the following: <u>MATC32H3</u> Graph Theory and Algorithms for its Applications <u>MATC44H3</u> Introduction to Combinatorics

#### 7. MAT electives (1.5 credits):

1.5 credits of any C- or D-level MAT courses

#### 8. MAT/STA/CSC electives (2.0 credits):

2.0 credits of any 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.

#### **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.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Major Program in Mathematics is limited.

Students may apply to enter the program after completing 4.0 credits, and must have passed all of the A-level MAT and CSC courses required in the program (<u>CSCA08H3, CSCA67H3</u>/<u>MATA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u> and <u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information.

#### **Program Requirements**

This stream requires a total of 8.5 credits, chosen so as to satisfy all of the following requirements:

#### 1. Foundational courses - 5.5 credits from the following:

[<u>MATA67H3</u> or <u>CSCA67H3</u> Discrete Mathematics] <u>MATA22H3</u> Linear Algebra I for Mathematical Sciences <u>MATA31H3</u> Calculus I for Mathematical Sciences <u>MATA37H3</u> Calculus II for Mathematical Sciences <u>CSCA08H3</u> Introduction to Computer Science I <u>MATB24H3</u> Linear Algebra II <u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>MATB42H3</u> Techniques of the Calculus of Several Variables II <u>MATB42H3</u> Techniques of the Calculus of Several Variables II <u>MATB42H3</u> Differential Equations I <u>STAB52H3</u> Introduction to Probability [<u>MATC01H3</u> Groups and Symmetry OR <u>MATC15H3</u> Introduction to Number Theory]

#### 2. Further analysis courses - 1.0 credit from 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: <u>MATC01H3</u> Groups and Symmetry
 <u>MATC09H3</u> Introduction to Mathematical Logic
 <u>MATC15H3</u> Introduction to Number Theory
 <u>MATC32H3</u> Graph Theory and Algorithms for its Applications
 <u>MATC44H3</u> Introduction to Combinatorics
 <u>MATC63H3</u> Differential Geometry
 <u>MATD01H3</u> Fields and Groups
 MATD02H3 Classical Plane Geometries and their Transformations

4. Elective courses - 1.0 credit from the following: <u>MATB61H3</u> Linear Programming and Optimization <u>STAB57H3</u> 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. <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CTLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGA11H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>, <u>ENGB09H3</u>, <u>ENGB17H3</u>, <u>ENGB19H3</u>, <u>ENGB50H3</u>, (<u>ENGB51H3</u>), <u>GGRA02H3</u>, <u>GGRA03H3</u>, <u>GGRB05H3</u>, (<u>GGRB06H3</u>), (<u>HISA01H3</u>), (<u>HLTA01H3</u>), <u>ACMA01H3</u>, (<u>HUMA01H3</u>), (<u>HUMA11H3</u>), (<u>HUMA17H3</u>), (<u>LGGA99H3</u>), <u>LINA01H3</u>, <u>PHLA10H3</u>, <u>PHLA11H3</u>, <u>WSTA01H3</u>.

### MAJOR (CO-OPERATIVE) PROGRAM IN MATHEMATICS (SCIENCE)

Supervisor of Studies: N. Breuss (416-287-7226), <u>n.breuss@utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Major (Co-op) Program in Mathematics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Mathematics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Major (Co-operative) Program in Mathematics is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program (<u>CSCA08H3</u>, <u>CSCA07H3</u>/<u>MATA67H3</u>, <u>MATA22H3</u>, <u>MATA31H3</u> and <u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

#### Prospective Co-op Students:

Prospective students (i.e., those not already admitted to a Co-op Degree POSt) may apply to the Co-op Program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program (<u>CSCA08H3</u>, <u>CSCA67H3</u>/<u>MATA67H3</u>, <u>MATA62H3</u>, <u>MATA31H3</u> and <u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Mathematics.

Co-op Work Term Requirements

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Mathematics and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC
- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.

#### 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.

Exclusion: (MATA20H3), MATA23H3, MATA30H3, MATA31H3, MATA32H3, MAT102H, MAT123H, MAT125H, MAT133Y, MAT134Y, MAT135Y, MAT137Y, MAT157Y Breadth Requirements: Quantitative Reasoning

#### MATA22H3 - Linear Algebra I for Mathematical Sciences

A conceptual and rigorous approach to introductory linear algebra that focuses on mathematical proofs, the logical development of fundamental structures, and essential computational techniques. This course covers complex numbers, vectors in Euclidean n-space, systems of linear equations, matrices and matrix algebra, Gaussian reduction, structure theorems for solutions of linear systems, dependence and independence, rank equation, linear transformations of Euclidean n-space, determinants, Cramer's rule, eigenvalues and eigenvectors, characteristic polynomial, and diagonalization.

Prerequisite: Grade 12 Calculus and Vectors or [Grade 12 Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics]
Exclusion: MATA23H3, MAT223H, MAT240H
Breadth Requirements: Quantitative Reasoning
Note: Students are cautioned that MAT223H cannot be used as a substitute for MATA22H3 in any courses for which MATA22H3 appears as a prerequisite.

#### MATA23H3 - Linear Algebra I

Systems of linear equations, matrices, Gaussian elimination; basis, dimension; dot products; geometry to Rn; linear transformations; determinants, Cramer's rule; eigenvalues and eigenvectors, diagonalization.

Prerequisite: Grade 12 Calculus and Vectors or [Grade 12
 Advanced Functions and Introductory Calculus and Geometry and Discrete Mathematics]
 Exclusion: MATA22H3, MAT223H
 Breadth Requirements: Quantitative Reasoning

#### MATA29H3 - 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 Exclusion: (MATA20H3), (MATA27H3), MATA30H3, MATA31H3, MATA32H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y Breadth Requirements: Quantitative Reasoning

#### MATA30H3 - Calculus I for Physical Sciences

An introduction to the basic techniques of Calculus. Elementary functions: rational, trigonometric, root, exponential and logarithmic functions and their graphs. Basic calculus: limits, continuity, derivatives, derivatives of higher order, analysis of graphs, use of derivatives; integrals and their applications.

Prerequisite: Grade 12 Calculus and Vectors Exclusion: (MATA20H3), (MATA27H3), MATA31H3, MATA32H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y Breadth Requirements: Quantitative Reasoning

## MATA31H3 - 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: (MATA20H3), (MATA27H3), MATA30H3, MATA32H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y Breadth Requirements: Quantitative Reasoning

## MATA32H3 - 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: (MATA20H3), (MATA27H3), MATA30H3, MATA31H3, MAT123H, MAT125H, MAT133Y, MAT135Y, MAT136Y, MAT137Y, MAT157Y, JMB170Y

Breadth Requirements: Quantitative Reasoning

### MATA33H3 - 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: MATA32H3

Exclusion: (MATA21H3), (MATA27H3), MATA35H3, MATA36H3, MATA37H3, MAT124H, MAT126H, MAT133Y, MAT134Y, MAT135Y, MAT136Y, MAT137Y, MAT157Y, JMB170Y Breadth Requirements: Quantitative Reasoning

## MATA35H3 - 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.

#### Prerequisite: MATA29H3

Exclusion: (MATA21H3), MATA33H3, MATA36H3, MATA37H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y, (MATA27H3) Breadth Requirements: Quantitative Reasoning

**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.

## MATA36H3 - 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: MATA30H3 or MATA31H3 Exclusion: (MATA21H3), MATA33H3, MATA35H3, MATA37H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y Breadth Requirements: Quantitative Reasoning

## MATA37H3 - 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: MATA31H3 and [MATA67H3 or CSCA67H3] Exclusion: (MATA21H3), MATA33H3, MATA35H3, MATA36H3, MAT123H, MAT124H, MAT125H, MAT126H, MAT133Y, MAT135Y, MAT137Y, MAT157Y, JMB170Y Preadth Bequirements: Quantitative Researching

Breadth Requirements: Quantitative Reasoning

### **MATA67H3 - 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 Requirements:** 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, selfadjoint and unitary operations. Some applications such as the method of least squares and introduction to coding theory.

Prerequisite: MATA22H3 or MAT240H Exclusion: MAT224H Breadth Requirements: Quantitative Reasoning Note: Students are cautioned that MAT224H cannot be used as a substitute for MATB24H3 in any courses for which MATB24H3 appears as a prerequisite.

#### 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: [MATA22H3 or MATA23H3 or MAT223H] and [[MATA36H3 or MATA37H3] or MAT137Y or MAT157Y]] Exclusion: MAT232H, MAT235Y, MAT237Y, MAT257Y Breadth Requirements: Quantitative Reasoning

## MATB42H3 - Techniques of the Calculus of Several Variables II

Fourier series. Vector fields in Rn, 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 Requirements: 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] and MATB24H3 Exclusion: MAT246Y Breadth Requirements: 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] and [MATA22H3 or MATA23H3] Corequisite: MATB41H3 Exclusion: MAT244H, MAT267H Breadth Requirements: 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: [MATA22H3 or MATA23H3] and MATB41H3 Exclusion: APM236H Breadth Requirements: Quantitative Reasoning

### MATC01H3 - Groups and Symmetry

Congruences and fields. Permutations and permutation groups. Linear groups. Abstract groups, homomorphisms, subgroups. Symmetry groups of regular polygons and Platonic solids, wallpaper groups. Group actions, class formula. Cosets, Lagrange's theorem. Normal subgroups, quotient groups. Emphasis on examples and calculations.

Prerequisite: [MATA36H3 or MATA37H3] and [MATB24H3 or MAT224H] Exclusion: MAT301H, MAT347Y Breadth Requirements: 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 and [ MATB43H3 or CSCB36H3] Exclusion: MAT309H, CSC438H Breadth Requirements: 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 Requirements: Quantitative Reasoning

#### MATC27H3 - Introduction to Topology

Fundamentals of set theory, topological spaces and continuous functions, connectedness, compactness, countability, separatability, metric spaces and normed spaces, function spaces, completeness, homotopy.

Prerequisite: MATB24H3 and MATB43H3 Exclusion: MAT327H Breadth Requirements: 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] and at least one other Blevel course in Mathematics or Computer Science **Breadth Requirements:** 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 Requirements: Quantitative Reasoning

### MATC37H3 - Introduction to Real Analysis

Topics in measure theory: the Lebesgue integral, Riemann-Stieltjes integral, Lp spaces, Hilbert and Banach spaces, Fourier series.

Prerequisite: MATB43H3 Exclusion: MAT337H, (MATC38H3) Recommended Preparation: MATC27H3 Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 [MATA22H3 or MATA23H3] and [MATA37H3 or MATA36H3] Exclusion: MAT382H Breadth Requirements: 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: 10.0 credits and [an additional 1.0 credit at the A-level in MAT courses [excluding MATA02H3]] Exclusion: MAT390H Breadth Requirements: 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 Requirements: 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: [MATA22H3 or MATA23H3] Corequisite: MATC01H3 Exclusion: MAT402H, (MAT365H), (MATC25H3) Breadth Requirements: 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]

## MATD16H3 - 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: MATC15H3 and STAB52H3 Exclusion: (MATC16H3) Breadth Requirements: Quantitative Reasoning

### MATD26H3 - Geometric Analysis and Relativity

An intuitive and conceptual introduction to general relativity with emphasis on a rigorous treatment of relevant topics in geometric analysis. The course aims at presenting rigorous theorems giving insights into fundamental natural phenomena. Contents: Riemannian and Lorentzian geometry (parallelism, geodesics, curvature tensors, minimal surfaces), Hyperbolic differential equations (domain of dependence, global hyperbolicity). Relativity (causality, light cones, inertial observes, trapped surfaces, Penrose incompleteness theorem, black holes, gravitational waves).

Prerequisite: MATC63H3 Exclusion: APM426H1 Breadth Requirements: Quantitative Reasoning

### 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 Requirements: Quantitative Reasoning

### **MATD92H3 - Mathematics Project**

issue permission for registration.

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 Requirements: Quantitative Reasoning
Note: Enrolment procedures: the project supervisor's note of agreement must be presented to the Supervisor of Studies who will

### **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 Requirements: 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 CPGA 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), Associate Professor
- K. Burchell, Ph.D. (Goldsmith), Assistant Professor
- T.L. Cowan, Ph.D. (Alberta), Assistant Professor
- J. Dvorkin, M.A. (Toronto), M.Phil. (LSE), Lecturer
- <u>D. Nieborg</u>, Ph.D. (Amsterdam), Assistant Professor
- <u>M. Petit</u>, M.A., Ph.D. (Colorado), Assistant Professor
- S. Yu, Ph.D. (Simon Fraser), Assistant Professor

Program Director: R. Bai Email: <u>rbai@utsc.utoronto.ca</u> Program Advisor: M. Hussain, Email: <u>mhussain@utsc.utoronto.ca</u>

Media are ubiquitous in contemporary society. Every aspect of human experience – the personal, social, economic, political, cultural, moral, and aesthetic – is mediated. We live in a world that is increasingly fragmented yet globally connected; a world saturated with fast-paced intensive online and mobile communicationand the accompanying ads that pay for it; a world in which new documentary formats and interactive ways of knowing about the world such as virtual reality (VR) are appearing; a world in which YouTube, Snapchat and social media have replaced traditional network television for many as sources of news about current events and issues. We live in a world in which individuals and the cultural industries and 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. They compete for our attention 24/7, and the distinction between "everyday reality" and "media reality" is becoming increasingly blurred for many. At the same time, the development of digital technologies and the forms of new media they make possible, are in the process of destabilizing these very same cultural industries and institutions, including traditional understandings of the role of media and journalism in a democratic capitalist society.

#### **Related Programs**

#### Major (Joint) Program in New Media Studies

Students interested in systematic practice-based and industry-specific training in digital media design and communication should consider applying to the Major (Joint) Program in New Media Studies offered in partnership with Centennial College, and listed in the <u>New Media Studies</u> section of this *Calendar*. Interested students should complete the core first-year courses and submit a Supplementary Application form, personal statement, and copy of their academic record to the program director by the May 1st deadline.

#### Specialist (Joint) Program in Journalism

Students interested in systematic practice-based and industry-specific training as a journalist should consider applying to the Specialist (Joint) Program in Journalism, offered in partnership with Centennial College, and listed in the <u>Journalism</u> section of this *Calendar*. Interested students should contact the program director.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## Media Studies Programs

## MAJOR PROGRAM IN MEDIA, JOURNALISM AND DIGITAL CULTURES (ARTS)

#### Undergraduate Advisor: Email: mds-undergrad-advisor@utsc.utoronto.ca

In the context of the complexity of the contemporary media environment and journalism's central role in how information is disseminated, the Major in Media, Journalism and Digital Cultures has two streams: Media Studies and Journalism Studies. Through common core courses and courses unique to each stream, students consider the ubiquity of media in contemporary society and examine media's cultural, political, economic, and social implications. Because media is centrally placed as a means through which democratic discussion occurs in the public sphere, the development of media literacy skills is crucial in maintaining an informed citizenry and 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)

The **Media Studies Stream** offers students theoretical and critical thinking tools to examine what it means to live in a highly-mediated, media-focused visual and auditory culture. Students study how media works in today's world at local, regional and global scales; the history of media and technology and its development and use across different cultures; how media industries manufacture, manage, and disseminate information; and how media form and content shape knowledge and meaning from historical, philosophical, cinematic and artistic perspectives, among many others. In studying media, students hone their media literacy skills and learn to critically evaluate the content of media and analyze its underlying ideologies and their implications within the cultural, political, economic, and social realms.

While all forms of journalism are examples of media, not all media are journalistic in nature. The **Journalism Studies Stream** is ideal for students who are interested in studying media with a specific focus on journalism, the news media industry, as well as journalism's form, function and meaning in a global and democratic society. It offers a comprehensive program of study and research with an emphasis on scholarly, conceptual understandings of journalism, including how journalism functions as an agent of change. It provides students a critical understanding of the role of journalism, its relationship to new technologies, and how cultures of information sharing are in the process of social change and what this means from cultural, political, economic, and social points of view. In critically studying journalism, students hone their media literacy skills to comprehend, navigate, and adapt to today's complicated and ever changing media environment, whether as journalists, policy advocates, or simply as informed citizens.

#### **Guide to Course Selection**

The Media Studies and Journalism Studies streams require 4.0 credits as a common core.

During their first year, students in both streams should take <u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs, <u>MDSA01H3</u> Introduction to Media Studies, and MDSA02 History of Media. Students in the Journalism Studies stream should also take <u>JOUA01H3</u> Introduction to Journalism and News Literacy I and <u>JOUA02H3</u> Introduction to Journalism II.

#### **Program Requirements**

Students must complete 8.0 credits including 2.0 credits at the C- or D-level:

#### Core (4.0 credits)

#### 1. Introductory Courses (2.0 credits):

<u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs <u>ACMB02H3</u> Methods of Inquiry and Investigation for ACM Programs <u>MDSA01H3</u> Introduction to Media Studies <u>MDSA02H3</u> History of Media

2. 0.5 credit from the following: <u>MDSB05H3</u> Media and Globalization <u>MDSB25H3</u> Political Economy of Media

### 3. 0.5 credit from the following:

<u>MDSB61H3</u> Mapping New Media <u>MDSB62H3</u> Visual Culture and Communication <u>MDSB63H3</u> Sound and Visual Media

### 4. 1.0 credit from the following:

MDSC01H3 Theories in Media Studies MDSC02H3 Media, Identities and Politics MDSC61H3 Alternative Media

#### Media Studies Stream (4.0 credits)

#### 5. 0.5 credit from the following:

<u>MDSD01H3</u> Senior Seminar: Topics in Media and Arts <u>MDSD02H3</u> Senior Seminar: Topics in Media and Society <u>MDSD11H3</u>/ JOUD11H3 Senior Research Seminar in Media and Journalism Research

#### 6. 3.5 additional credits in MDS courses

#### Journalism Studies Stream (4.0 credits)

5. 1.0 credit as follows: <u>JOUA01H3</u> Introduction to Journalism and News Literacy I <u>JOUA02H3</u> Introduction to Journalism II

#### 6. 2.0 credits as follows:

<u>JOUB01H3</u> Covering Immigration and Transnational Issues <u>JOUB02H3</u> Critical Journalism <u>JOUB24H3</u> Journalism in the Age of Digital Media <u>JOUB39H3</u> Fundamentals of Journalistic Writing

#### 7. 0.5 credit from the following:

<u>JOUC30H3</u> Critical Approaches to Style, Form and Narrative <u>JOUC31H3</u> Journalism, Information Sharing and Technological Change <u>JOUC62H3</u> Media, Journalism and Digital Labour <u>JOUC63H3</u> Media Ethics

### 8. JOUD11H3/ MDSD11H3 Senior Research Seminar in Media and Journalism

## **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:

<u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs <u>MDSA01H3</u> Introduction to Media Studies

### 2. 0.5 credit from the following:

<u>MDSA02H3</u> History of Media <u>MDSB05H3</u> 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**

## 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 Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

## MDSB01H3 - 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, geneticallymodified organisms, and other hybrid creatures.

Corequisite: MDSA01H3 Exclusion: (IEEB01H3) Breadth Requirements: History, Philosophy & Cultural Studies

## MDSB03H3 - 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 Requirements:** History, Philosophy & Cultural Studies

## MDSB05H3 - Media and Globalization

This course examines the role of technological and cultural networks in mediating and facilitating the social, economic, and political processes of globalization. Key themes include imperialism, militarization, global political economy, activism, and emerging media technologies. Particular attention is paid to cultures of media production and reception outside of North America.

Same as GASB05H3

**Prerequisite:** 4.0 credits and MDSA01H3 **Exclusion:** GASB05H3 **Breadth Requirements:** History, Philosophy & Cultural Studies

## MDSB09H3 - Kids These Days: Youth, Language and Media

Across the globe, youth represent both positive and negative aspects of the future. Drawing on ethnographic examples from many cultural contexts, this course asks how youthful generations form around changing language and new media technologies. Topics include: gender, sexuality, indigeneity, race/ethnicity, class, and diaspora. Same as ANTB35H3

Prerequisite: ANTA02H3 or MDSA01H3 Exclusion: ANTB35H3, (MDSB02H3), (ANTB21H3) Breadth Requirements: Arts, Literature & Language

## MDSB10H3 - 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 Requirements:** History, Philosophy & Cultural Studies

## MDSB15H3 - Social Media, Platform Politics and Digital Cultures

This course focuses on the technological, social, cultural, and political-economic organization of media and communication by critically engaging with social media, digital platforms, and apps. The dominance of platforms operated by Google, Apple, Facebook, and Amazon raises questions about platform politics and how platform owners engineer sociality and digital culture.

**Prerequisite:** ACMB01H3 and [[ MDSA01H3 and MDSA02H3] or [ JOUA01H3 and JOUA02H3]] **Breadth Requirements:** History, Philosophy & Cultural Studies

## MDSB25H3 - Political Economy of Media

This course follows money in media industries. It introduces a variety of economic theories and methods to analyse cultural production and circulation, and the organization of media and communication companies. These approaches are used to better understand the political economy of digital platforms, apps, television, film, and games.

**Prerequisite:** MDSA01H3 and MDSA02H3 **Breadth Requirements:** Arts, Literature & Language

## MDSB61H3 - 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 Requirements:** History, Philosophy & Cultural Studies

# MDSB62H3 - 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 Requirements: Arts, Literature & Language

## MDSB63H3 - 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 Requirements:** 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 Requirements:** 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 Requirements: Social & Behavioural Sciences

## MDSC21H3 - Anthropology of Language and Media

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 ANTC59H3

Prerequisite: [ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3 and ACMB01H3] Exclusion: (MDSB02H3), (ANTB21H3), ANTC59H3 Breadth Requirements: Arts, Literature & Language

## MDSC35H3 - Understanding Scandals

This course focuses on modern-day scandals, ranging from scandals of politicians, corporate CEOs, and celebrities to scandals involving ordinary people. It examines scandals as conditioned by technological, social, cultural, political, and economic forces and as a site where meanings of deviances of all sorts are negotiated and constructed. It also pays close attention to media and journalistic practices at the core of scandals.

Prerequisite: ACMB01H3 and [[ MDSA01H3 and MDSA02H3] or [ JOUA01H3 and JOUA02H3]] Exclusion: SOC342H5 Enrolment Limits: 50 Breadth Requirements: History, Philosophy & Cultural Studies

## **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 Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

# MDSC53H3 - 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 ANTC53H3

Prerequisite: [ANTB19H3 and ANTB20H3] or [MDSA01H3 and MDSB05H3 and ACMB01H3] Exclusion: ANTC53H3 Enrolment Limits: 60 Breadth Requirements: Arts, Literature & Language

## MDSC60H3 - Diasporic Media

New media technologies enable more production and distribution of culturally, ethnically and linguistically diverse voices than ever before. Who produces these diverse voices and how accessible are these media? This course explores various types of diasporic media from century-old newspapers to young and hip news and magazine blogs, produced by and for members of a multicultural society.

Same as JOUC60H3

**Prerequisite:** ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Exclusion:** JOUC60H3

**Breadth Requirements:** History, Philosophy & Cultural Studies

## 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] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Breadth Requirements:** History, Philosophy & Cultural Studies

# MDSC62H3 - Media, Journalism and Digital Labour

This course explores themes of labour in *news* media and *new* media. Topics include labour conditions for media workers across sectors; the labour impacts of media convergence; and the global distribution of media labour including content generation and management. The course is structured by intersectional analyses, studying how race and racism, class, gender, sex and sexism, sexuality, nationality, global location and citizenship status, Indigeneity and religion shape our experiences of media, journalism and labour.

Same as JOUC62H3

**Prerequisite:** ACMB01H3 and [[ MDSA01H3 and MDSB05H3] or [ JOUA01H3 and JOUA02H3]] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Exclusion:** JOUC62H3 **Breadth Requirements:** Arts, Literature & Language

## **MDSC63H3 - 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 Requirements: 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] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]]

Breadth Requirements: Arts, Literature & Language

## MDSC65H3 - Games and Play

This course introduces students to academic perspectives on games and play. Students develop a critical understanding of a variety of topics and discussions related to games, gamification, and play in the physical and virtual world.

**Prerequisite:** ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]]

Breadth Requirements: Arts, Literature & Language

# MDSC66H3 - Selfies and the Selfie Culture

Selfies are an integral component of contemporary media culture and used to sell everyone from niche celebrities to the Prime Minister. This class examines the many meanings of selfies to trace their importance in contemporary media and digital cultures as well as their place within, and relationship to, historically and theoretically grounded concepts of photography and self portraiture.

**Prerequisite:** ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Breadth Requirements:** History, Philosophy & Cultural Studies

## MDSC71H3 - Media and Religion

Studies

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 Requirements:** History, Philosophy & Cultural

# MDSC80H3 - Understanding Audiences in the Digital Age

Understanding the interests and goals of audiences is a key part of media production. This course introduces communication research methods including ratings, metrics, in-depth interviews, and focus groups. The focus of class discussion and research project is to use these methods to be able to understand the nature of audiences' media use in the digital age.

Same as JOUC80H3

**Prerequisite:** ACMB01H3 and [[2.0 credits at the B-level in MDS courses] or [2.0 credits at the B-level in JOU courses] or [4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses]] **Exclusion:** JOUC80H3 **Enrolment Limits:** 45

**Breadth Requirements:** 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 Enrolment Limits: 50

**Breadth Requirements:** 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]

# 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]

# MDSD11H3 - Senior Research Seminar in Media and 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. Same as JOUD11H3

**Prerequisite:** ACMB02H3 and [an additional 4.5 credits in MDS or JOU courses, 1.0 credit of which must be at the C-level] **Exclusion:** JOUD11H3 **Breadth Requirements:** Arts, Literature & Language

## **Music and Culture**

Program Director: <u>L. Tucker</u> Program Advisor: M. Hussain, Email: <u>mhussain@utsc.utoronto.ca</u>

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, computer science, 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.

Students are cautioned that some courses in Music and Culture (VPM) may include Ancillary fees.

#### **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 the first week of classes in the semester the courses are offered. For more details, please visit the Music Performance Ensembles Audition Information and FAQs <u>website</u>. Credit students should register for courses; however, admission approval will be based on successful completion of the interview/audition.

UTSC Performance Courses		
String Orchestra: VPMA66H3; VPMA67H3; VPMB66H3; VPMB67H3; VPMC66H3; VPMC67H3		
Small Ensemble: VPMA68H3; VPMA69H3; VPMB68H3; VPMB69H3; VPMC68H3; VPMC69H3		
Concert Choir: VPMA70H3; VPMA71H3; VPMB70H3; VPMB71H3; VPMC70H3; VPMC71H3		
Concert Band: VPMA73H3; VPMA74H3; VPMB73H3; VPMB74H3; VPMC73H3; VPMC74H3		

#### **General Interest Courses**

<u>VPMA93H3</u> Listening to Music, <u>VPMA95H3</u> Elementary Musicianship I and <u>VPMB84H3</u> Music of the World's Peoples, assume no previous experience in music.

#### Planning a Program in Music

Music studies normally begin with <u>VPMA93H3</u> 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 Advisor 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:

#### Music and Culture Areas of Focus Table:

Music and Society	Community Music	Music Creativity and Technology
VPMC85H3 Movies, Music, and Meaning VPMC89H3 Music and Identity VPMC94H3 Jazz VPMC95H3 Musical Diasporas VPMD90H3 Critical Issues in Music and Society	VPMB01H3 Introduction to Community Music [VPMB66H3 String Orchestra IIa or VPMB68H3 Small Ensemble IIa or VPMB70H3 Concert Choir IIa or VPMB73H3 Concert Band IIa] [VPMB67H3 String Orchestra IIb or VPMB69H3 Small Ensemble IIb or VPMB71H3 Concert Choir IIb or VPMB74H3 Concert Band IIb] VPMC01H3 Exploring Community Music VPMC78H3 Balinese Gamelan: Performance and Context VPMD01H3 Senior Seminar: Music in our Communities	VPMB91H3 Music and Technology VPMC90H3 Materials of Music III VPMC91H3 Electronic Music I VPMC93H3 Music and Imagination VPMC97H3 Music, Technologies, Media VPMD91H3 Electronic Music II

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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

<u>VPMB01H3</u> Introduction to Community Music <u>VPMB82H3</u> Music in the Modern and Contemporary World <u>VPMB84H3</u> Music of the World's Peoples <u>VPMB88H3</u> Materials of Music I <u>VPMB90H3</u> Materials of Music II

#### 3. VPMC88H3 Topics in Music and Culture

#### 4. 3.0 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

[<u>VPMB01H3</u> Introduction to Community Music or <u>VPMB82H3</u> Music in the Modern and Contemporary World or <u>VPMB84H3</u> 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 la

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 Requirements:** Arts, Literature & Language **Note:** Priority will be given to student enrolled in the Major and Minor programs in Music and Culture. Additional students will be admitted as space permits.

## VPMA68H3 - Small Ensemble la

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 Requirements:** 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 Requirements: 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

**Breadth Requirements:** 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 la

The practical study of vocal ensemble performance. 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 Requirements: Arts, Literature & Language

## VPMA71H3 - Concert Choir Ib

A continuation of VPMA70H3

The practical study of vocal ensemble performance. 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 Requirements: Arts, Literature & Language

## VPMA73H3 - Concert Band la

The practical study of instrumental ensemble performance. 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 Requirements: Arts, Literature & Language

### VPMA74H3 - Concert Band Ib

A continuation of VPMA73H3. The practical study of instrumental ensemble performance. 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 Requirements: Arts, Literature & Language

## 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** 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. 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 Requirements: Arts, Literature & Language

## VPMB71H3 - Concert Choir IIb

A continuation of VPMB70H3.

The practical study of vocal ensemble performance. 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 Requirements:** Arts, Literature & Language

## VPMB73H3 - Concert Band IIa

A continuation of VPMA74H3.

The practical study of instrumental ensemble performance. 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 Requirements: Arts, Literature & Language

## VPMB74H3 - Concert Band IIb

A continuation of VPMB73H3.

The practical study of instrumental ensemble performance. 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** Arts, Literature & Language

## VPMB90H3 - Materials of Music II

Further study of the basic materials of music with increased emphasis on composition.

**Prerequisite:** VPMB88H3 **Breadth Requirements:** 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 Requirements: 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:** ACMB01H3 and VPMB01H3 **Recommended Preparation:** 1.0 credit in Music Performance

**Breadth Requirements:** 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.

## 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 Requirements:** 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 IIIb

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: VPMC74H3-LEC02 Breadth Requirements: 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 Requirements: 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 IIIb

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 Requirements:** Arts, Literature & Language

## VPMC70H3 - Concert Choir Illa

#### A continuation of VPMB71H3.

The practical study of vocal ensemble performance. 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 Requirements: Arts, Literature & Language

## VPMC71H3 - Concert Choir IIIb

#### A continuation of VPMC70H3.

The practical study of vocal ensemble performance. 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 Requirements: Arts, Literature & Language

## VPMC73H3 - Concert Band Illa

A continuation of VPMB74H3.

The practical study of instrumental ensemble performance. 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: VPMB74H3 or (VPMB92H3) Exclusion: (VPMC92H3) Breadth Requirements: Arts, Literature & Language

## VPMC74H3 - Concert Band IIIb

A continuation of VPMC73H3.

The practical study of instrumental ensemble performance. 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 Requirements: 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: (VPMB78H3) Breadth Requirements: 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

Enclusion: MDSC65HS

**Breadth Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 addition 1.0 credit at the B-level in VPM courses]

Breadth Requirements: 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 Requirements:** 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 servicelearning 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 Requirements:** 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.

## VPMD81H3 - 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.

# 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 Requirements:** History, Philosophy & Cultural Studies

## VPMD91H3 - Electronic Music II

More advanced study in electronic, electroacoustic and computer-generated music with emphasis on electroacoustic composition. This course is primarily labbased.

**Prerequisite:** VPMC91H3 and [an additional 0.5 credit at the C-level in VPM courses] **Breadth Requirements:** Arts, Literature & Language

## Neuroscience

#### **Faculty List**

- M. Arruda-Carvalho, B.Sc. (Rio de Janeiro), M.Sc. (Rio de Janeiro), Ph.D. (Toronto), Assistant Professor
- 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
- V. Goghari, B.A. (British Columbia), M.A., Ph.D. (Minnesota), 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
- <u>M. Inzlicht</u>, B.A. (McGill), M.Sc., Ph.D. (Brown), Professor
- R. Ito, B.A. (Oxford), Ph.D. (Cambridge), Associate 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), 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
- 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. Petit, 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
- <u>A.C. Ruocco</u>, B.Sc. (York), M.Sc., Ph.D., C. Psych (Drexel), Associate Professor
- M. Souza, B.A., M.A. (UC Davis), Ph.D. (Berkeley), Associate Professor, Teaching Stream
- 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

Chair: <u>G.S. Cree</u> Associate Chair, Undergraduate and Program Supervisor: M. Souza

Program Manager: Hanan Domloge Undergraduate Advisor: Priya Sivathason Email: <u>psychology-undergraduate@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

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 Specialist Program is designed for students who have a particular interest in the Neurosciences and would like 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. The Major Program is intended for student who wish to combine their studies of Neuroscience with other areas of interest.

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.

#### **Neuroscience courses**

Priority access to Neuroscience courses will be given to Majors 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.

#### Guidelines for first year course selection

<u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>PSYA01H3</u> and <u>PSYA02H3</u> are recommended in the first year if you are intending to pursue a Specialist or Major Program in Neuroscience. For Specialists, [<u>MATA29H3</u> or <u>MATA30H3</u>] is recommended in first year and [<u>PHYA10H3</u> or <u>PHYA11H3</u>] is recommended in the first two years.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Neuroscience Programs**

## SPECIALIST PROGRAM IN NEUROSCIENCE (SCIENCE)

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply after completing a minimum of 4.0 credits including 1.0 credit in each of biology, chemistry and psychology. Admission will be based on the cumulative GPA, with 2.8 or higher guaranteeing admission to the Specialist Program. Students with lower CGPAs will be considered to the extent that laboratory spaces are available. The minimum CGPA 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 ACORN, in April/May and July/August.

#### **Program Requirements**

This program requires completion of 14.0 credits:

#### 1. 4.0 credits as follows:

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 MATA29H3 Calculus I for the Life Sciences] [PHYA10H3 Physics I for the Physical Sciences or PHYA11H3 Physics I for the Life Sciences] PSYA01H3 Introduction to Biological and Cognitive Psychology PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. 3.5 credits as follows:

<u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes <u>CHMB41H3</u> Organic Chemistry I <u>CHMB42H3</u> Organic Chemistry II <u>NROB60H3</u> Neuroanatomy Laboratory [<u>PSYB55H3</u> Introduction to Cognitive Neuroscience or (<u>PSYB65H3</u>) Human Brain and Behaviour] [<u>STAB22H3</u> Statistics I or <u>PSYB07H3</u> Data Analysis in Psychology]

#### 3. 5.5 credits as follows:

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 and Motivation [NROC60H3 Cellular Neuroscience Laboratory or <u>NROC63H3</u> 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
NROD63H3) BIOD08H3 Theoretical Neuroscience
(NROD63H3) Advanced Neuroscience Laboratory
NROD66H3 Drug Addiction
NROD67H3 Psychobiology of Aging
PSYD17H3 Social Neuroscience
PSYD33H3 Current Topics in Clinical Psychology
PSYD66H3 Current Topics in Human Brain & Behaviour
Note: 0.5 credit of NROD98Y3, Thesis in Neuroscience, may also be counted towards the completion of component 4.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN NEUROSCIENCE (SCIENCE)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Neuroscience is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Neuroscience upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

Enrolment in the program is limited. The minimum qualifications for entry are 4.0 credits, including <u>BIOA01H3</u>, <u>BIOA02H3</u>, <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>PSYA01H3</u> and <u>PSYA02H3</u>, plus a cumulative GPA of at least 2.75.

Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Completion Requirements**

The program requires students to complete a total of 15.0 credits including the 14.0 credits as specified in the Specialist Program in Neuroscience, plus the following:

- 1. <u>BIOB12H3</u> Cell and Molecular Biology Laboratory
- 2. BIOC23H3 Practical Approaches to Biochemistry

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist Co-op Program in Neuroscience and have completed at least 10.0 credits including: <u>BIOB10H3</u>, <u>BIOB11H3</u>, <u>BIOB12H3</u>, <u>CHMB41H3</u>, <u>CHMB42H3</u>, <u>NROB60H3</u>, and [<u>NROC61H3</u> or <u>NROC64H3</u>].

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **MAJOR PROGRAM IN NEUROSCIENCE (SCIENCE)**

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply after completing a minimum of 4.0 credits including 1.0 credit in each of biology, chemistry and psychology. Admission will be based on the cumulative GPA, with 2.0 or higher guaranteeing admission to the Major Program. Students with lower CGPAs will be considered to the extent that laboratory spaces are available. The minimum CGPA 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 ACORN, in April/May and July/August.

#### **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 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. 3.0 credits as follows:

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 Introduction to Biological and Cognitive Psychology PSYA02H3 Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. 2.5 credits as follows:

<u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Cellular and Genetic Processes <u>NROB60H3</u> Neuroanatomy Laboratory [<u>PSYB55H3</u> Introduction to Cognitive Neuroscience or (<u>PSYB65H3</u>) Human Brain and Behaviour] [<u>STAB22H3</u> Statistics I or <u>PSYB07H3</u> Data Analysis in Psychology]

#### 3. 1.5 credits as follows:

<u>BIOC32H3</u> Human Physiology I <u>NROC61H3</u> Learning and Motivation <u>NROC64H3</u> 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 and Laboratory **BIOD27H3 Molecular Endocrinology BIOD45H3** Animal Communication BIOD65H3 Pathologies of the Nervous System NROC34H3 Neuroethology NROC36H3 Molecular Neuroscience NROC60H3 Cellular Neuroscience Laboratory NROC63H3 Neuroscience Laboratory NROC69H3 Synaptic Organization and Physiology of the Brain NROC90H3 Supervised Study in Neuroscience NROD08H3/ BIOD08H3 Theorectical 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 Clinical Psychology PSYD66H3 Current Topics in Human Brain and 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 Requirements: 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, coordination, learning and memory. Topics may vary from year to year.

**Prerequisite:** BIOB34H3 or NROB60H3 **Breadth Requirements:** Natural Sciences

## NROC36H3 - Molecular Neuroscience

This course will focus on the molecular mechanisms underlying neuronal communication in the central nervous system. The first module will look into synaptic transmission at the molecular level, spanning pre and postsynaptic mechanisms. The second module will focus on molecular mechanisms of synaptic plasticity and learning and memory. Additional topics will include an introduction to the molecular mechanisms of neurodegenerative diseases and channelopathies.

Prerequisite: NROB60H3 and BIOB10H3 Recommended Preparation: BIOB11H3 Breadth Requirements: Natural Sciences Note: Priority will be given to students enrolled in the Specialist and Specialist Co-op programs in Neuroscience. Students in the Major program in Neuroscience will be admitted as space permits.

## NROC60H3 - Cellular Neuroscience Laboratory

This course involves a theoretical and a hands-on cellular neuroscience laboratory component. Advanced systems, cellular and molecular neuroscience techniques will be covered within the context of understanding how the brain processes complex behaviour. Practical experience on brain slicing, immunohistochemistry and cell counting will feature in the completion of a lab project examining the cellular mechanisms underlying schizophrenia-like behavioural deficits. These experiments do not involve contact with animals.

Prerequisite: NROC36H3 or NROC61H3 or NROC69H3 Corequisite: PSYC08H3 Exclusion: PSY399H Enrolment Limits: 20 Breadth Requirements: 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 Requirements: 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] and NROB60H3 Exclusion: PSY399H Enrolment Limits: 20 Breadth Requirements: Natural Sciences

## NROC64H3 - 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 Requirements: Natural Sciences

# NROC69H3 - 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 Requirements: Natural Sciences

## 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. NROC90H and 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 and 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:** PSYC93H3

## **NROD08H3 - Theoretical Neuroscience**

A seminar covering topics in the theory of neural information processing, focused on perception, action, learning and memory. Through reading, discussion and working with computer models students will learn fundamental concepts underlying current mathematical theories of brain function including information theory, spike-time/rate coding, population codes, deep learning architectures, auto-associative memories, reinforcement learning and Bayesian optimality. Same as BIOD08H3

Prerequisite: [NROC34H3 or NROC64H3 or NROC69H3] and [MATA29H3 or MATA31H3] and [PSYB07H3 or STAB22H3] Exclusion: BIOD08H3 Breadth Requirements: Natural Sciences

## NROD60H3 - Current Topics in Neuroscience

An intensive examination of selected issues and research problems in the Neurosciences.

Prerequisite: NROC61H3 and NROC64H3

## **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] and PSYC62H3 Exclusion: NROD60H3 (if taken in the 2009 Fall Session) Recommended Preparation: PSYC08H3 Enrolment Limits: 20 Breadth Requirements: 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 and [NROC61H3 or NROC64H3] Corequisite: NROC61H3 Enrolment Limits: 20 Breadth Requirements: 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

- <u>R. Bai</u>, Ph.D. (Illinois), Assistant Professor
- <u>K. Burchell</u>, Ph.D. (Goldsmith), Assistant Professor
- <u>T.L. Cowan</u>, Ph.D. (Alberta), Assistant Professor
- J. Dvorkin, M.A. (Toronto), M.Phil. (LSE), Lecturer
- <u>D. Nieborg</u>, Ph.D. (Amsterdam), Assistant Professor
- M. Petit, M.A., Ph.D. (Colorado), Associate Professor, Teaching Stream

Program Director: R. Bai Email: <u>new-media@utsc.utoronto.ca</u> Program Advisor: M. Hussain, Email: <u>mhussain@utsc.utoronto.ca</u>

UTSC offers a Major (Joint) Program in New Media Studies, which 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 <u>951 Carlaw Avenue, Toronto, ON</u>.

#### 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, please visit the Department of Arts Media and Culture: New Media Studies <u>website</u>.

#### Guidelines for course selection

Students admitted to the program must follow the course selection guidelines described in the table below:

Year of Study	Fall Session	Winter Session
First Year (at UTSC)	MDSA01H3* *MDSA01H3 is also offered in the Summer session	MDSA02H3 ACMB01H3
Second Year (at Centennial College) Notes: 1. Students must be enrolled full- time in year 2 of the program. 2. Due to the course and project work load, students are not permitted to take additional courses at UTSC.	New Media Group 1:* <u>NMEA01H3</u> <u>NMEA02H3</u> <u>NMEA03H3</u> <u>NMEA04H3</u> *students must enrol in all courses in Group 1	New Media Group 2:* <u>NMEB05H3</u> <u>NMEB06H3</u> <u>NMEB08H3</u> <u>NMEB09H3</u> <u>NMEB10H3</u> *students must enrol in all courses in Group 2
Third Year (at UTSC) Note: students complete Media Studies electives in year 3 and 4	<u>NMEC01H3</u> (Fulfill the prerequisites for the MDS C-level courses that students will take in Winter session)	0.5 credit from the following: <u>MDSC61H3</u> <u>MDSC64H3</u> <u>MDSC65H3</u> <u>MDSC66H3</u>
Fourth Year (at UTSC) Note: students complete Media Studies electives in year 3 and 4	<u>NMED10Y3</u>	

#### 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 more details, please visit the Joint Program New Media Studies Program Requirement website.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

### **New Media Studies Programs**

## MAJOR (JOINT) PROGRAM IN NEW MEDIA STUDIES (ARTS)

Undergraduate Advisor: Email: nme-undergrad-advisor@utsc.utoronto.ca

#### **Enrolment Requirements**

Enrolment in the program is limited and admission is by competitive application, due by May 1 each year. Students must have completed <u>MDSA01H3</u> and <u>MDSA02H3</u>, and have a minimum cumulative GPA of 2.0 to apply. Students must request admission to the program through ACORN 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 ACORN in early June.

### **Program Requirements**

Students must complete 8.0 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. 0.5 credit:

ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

3. 0.5 credit:

NMEC01H3 Theory and Practice of New Media

#### 4. 0.5 additional credit at the C-level in MDS courses:

#### 5. 4.5 credits from Centennial College:

New Media Group 1: <u>NMEA01H3</u> Digital Fundamentals <u>NMEA02H3</u> Introduction to New Media Communications <u>NMEA03H3</u> The Language of Design <u>NMEA04H3</u> 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] <u>NMEB05H3</u> Interface Design, Navigation and Interaction II <u>NMEB06H3</u> Project Development and Presentation <u>NMEB08H3</u> Application Software for Interactive Media <u>NMEB09H3</u> Sound Design <u>NMEB10H3</u> Design for New Media

#### 6. 1.0 credit:

NMED10Y3 New Media Senior Project

**Note**: <u>NMEC01H3</u> and <u>NMED10Y3</u> are taught at UTSC. All other NME courses are taught at Centennial College Story Arts Centre.

## **NMEA01H3 - 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 Requirements: Social & Behavioural Sciences

## NMEA02H3 - 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 Requirements:** History, Philosophy & Cultural Studies

## NMEA03H3 - The Language of Design

This course introduces the fundamentals of twodimensional 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, twodimensional design principles, colour and visual communication strategies, learners will be introduced to the exciting world of applied graphic design and multimedia. This course is taught at Centennial College.

#### Prerequisite: 10 full credits

**Corequisite:** 5.0 credits including MDSA01H3 and MDSA02H3

**Enrolment Limits:** 35. This course is only open to students registered in the Joint Major Program in New Media.

Breadth Requirements: Arts, Literature & Language

## NMEA04H3 - 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 Requirements: Arts, Literature & Language

## NMEB05H3 - 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 Requirements: Arts, Literature & Language

## NMEB06H3 - 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: NMEB05H3, NMEB08H3, NMEB09H3, NMEB10H3

**Enrolment Limits:** 35. This course is only open to students registered in the Joint Major Program in New Media.

Breadth Requirements: Social & Behavioural Sciences

## NMEB08H3 - 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 Requirements: Social & Behavioural Sciences

## NMEB09H3 - 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: NMEB05H3, NMEB06H3, NMEB08H3, NMEB10H3

**Enrolment Limits:** 35. This course is only open to students registered in the Joint Major Program in New Media.

Breadth Requirements: Arts, Literature & Language

## NMEB10H3 - 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: NMEB05H3, NMEB06H3, NMEB08H3, NMEB09H3

**Enrolment Limits:** 35. This course is only open to students registered in the Joint Major Program in New Media.

Breadth Requirements: Arts, Literature & Language

## NMEC01H3 - 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: 4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses Exclusion: (NMED20H3) Enrolment Limits: 35 Breadth Requirements: History, Philosophy & Cultural Studies

## NMED10Y3 - 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 15.0 credits including 4.5 credits from the Major (Joint) program in New Media Studies Group I and Group II courses Exclusion: (NMED01H3) Enrolment Limits: 35

## Paramedicine

#### **Faculty List**

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

This is a unique program in Canada, offered jointly by UTSC and Centennial College, which combines a four-year Honours Bachelor of Science with a two-year Paramedic Diploma program into a specialized degree that is completed over a four-year period. In the Specialist (Joint) Program in Paramedicine students benefit from tailored curricular design and exceptional faculty at UTSC and Centennial College. The program gives students the critical thinking, analytical and technical skills to succeed in the knowledge and performance-based field of Paramedicine. Graduates of the Specialist (Joint) Program in Paramedicine receive a BSc and are qualified for certification as Primary Care Paramedics (PCPs) in Ontario, contingent on passing the Advanced Emergency Care Assistant Exam (AEMCA) offered by the Ontario Ministry of Health.

Students spend the first year of their degree at UTSC; in second and third year, students complete a total of 7.5 credits at the Centennial College <u>Morningside Campus</u> alongside taking courses at UTSC. Students complete the program by finishing off year four of their studies at UTSC. Upon successful completion of the Centennial College portion of the program, students are eligible to write the AEMCA exam. Program graduates are well prepared for employment in the field of Paramedicine and have a strong foundation for future studies in professional fields related to health care.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Paramedicine Programs**

## SPECIALIST (JOINT) PROGRAM IN PARAMEDICINE (SCIENCE)

Supervisor of Studies: Shelley Brunt Email: paramedicine@utsc.utoronto.ca

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.

#### **Enrolment Requirements**

This program has 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. 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 section 6B.4 (Joint Programs with Centennial College) of this *Calendar*.

#### **Program Requirements**

This program requires the completion of 16.5 credits. Including electives, students should 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).

#### 1. 1.0 Credit of Introductory Biology Courses

<u>BIOA01H3</u> Life on Earth: Unifying Principles <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions

#### 2. 1.5 Credits of Core Biology Courses

<u>BIOB10H3</u> Cell Biology <u>BIOB11H3</u> Molecular Aspects of Genetic Processes [(<u>BIOB30H3</u>) Mammalian Physiology I or <u>BIOB34H3</u> Animal Physiology]

#### 3. 1.5 Credits of Foundational Biology Courses

<u>BIOC17H3</u> Microbiology [<u>BIOC21H3</u> Vertebrate Histology: Cells and Tissues or <u>BIOC32H3</u> Human Physiology I] <u>BIOC34H3</u> Human Physiology II: Lecture

#### 4. 1.0 Credit of Advanced Biology Courses

Choose From: <u>BIOD17H3</u> Seminars in Cellular Microbiology <u>BIOD26H3</u> Fungal Biology and Pathogenesis <u>BIOD29H3</u> Pathobiology of Human Disease <u>BIOD33H3</u> Comparative Animal Physiology <u>BIOD43H3</u> Animal Movement and Exercise <u>BIOD65H3</u> Pathologies of the Nervous System <u>BIOD96Y3</u> Directed Research in Paramedicine

#### 5. 1.0 Credit of Introductory Chemistry Courses

<u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms

#### 6. 1.0 Credit of Introductory Psychology Courses

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 7. 1.0 Credit of B-Level Psychology Courses

<u>PSYB20H3</u> Introduction to Developmental Psychology <u>PSYB32H3</u> Introduction to Clinical Psychology

#### 8. 1.0 Credit of Statistics/Data Analysis Courses

[<u>STAB22H3</u> Statistics I *or* <u>PSYB07H3</u> Data Analysis in Psychology] <u>PSYC08H3</u> Advanced Data Analysis in Psychology

#### 9. 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
- \* <u>PMDB32Y3</u> 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).

**Note:** 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.

### Suggested Course Sequence

Note: Students may also take courses in the summer, when offered.

#### Year 1: Fall Session

- 1. <u>BIOA01H3</u> Life on Earth: Unifying Principles
- 2. <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding
- 3. <u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology
- 4. <u>PSYB07H3</u> Data Analysis in Psychology (fall) and 0.5 credits of elective courses or

1.0 credits of elective courses

### Year 1: Winter Session

- 1. <u>BIOA02H3</u> Life on Earth: Form, Function and Interactions
- 2. CHMA11H3 Introductory Chemistry II; Reactions and Mechanisms
- 3. <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology
- 4. <u>STAB22H3</u> Statistics I and 0.5 credits of elective courses or
  - 1.0 credits of elective courses

### Year 2: Fall Session

- 1. BIOB10H3 Cell Biology
- 2. PMDB33H3 Anatomy
- 3. <u>PMDB22H3</u> Pre-Hospital Care 1: Theory and Lab
- 4. <u>PMDB25H3</u> Therapeutic Approaches to Behaviour in Crisis
- 5. PMDB41H3 Professional Issues, Research and Leadership

### Year 2: Winter Session

- 1. <u>BIOB11H3</u> Molecular Aspects of Genetic Processes
- 2. <u>PMDB30H3</u> Alterations of Human Body Function I
- 3. <u>PMDB32Y3</u> Pre-Hospital Care 2: Theory, Lab and Clinical
- 4. <u>PMDB36H3</u> Pharmacology for Allied Health Pre-requisite

### Year 3: Fall Session

- 1. BIOB34H3 Animal Physiology or (BIOB30H3) Mammalian Physiology I
- 2. <u>PMDC40H3</u> Alterations in Human Body Function II
- 3. <u>PMDC42Y3</u> Pre-Hospital Care 3: Theory, Lab and Field
- 4. <u>PMDC43H3</u> Medical Directed Therapeutics and Paramedic Responsibilities

### Year 3: Winter Session

- 1. <u>BIOC17H3</u> Microbiology
- 2. <u>BIOC34H3</u> Human Physiology II: Lecture
- 3. <u>PMDC54Y3</u> Pre-Hospital Care 4: Theory, Lab and Field
- 4. <u>PMDC56H3</u> Primary Care Practice Integration and Decision Making

### Year 4: Fall Session\*

- 1. <u>BIOC21H3</u> Vertebrate Histology: Cells and Tissues or <u>BIOC32H3</u> Human Physiology I
- 2. <u>PSYB20H3</u> Introduction to Developmental Psychology
- 3. <u>PSYB32H3</u> Abnormal Psychology
- [<u>BIOD33H3</u> Comparative Animal Physiology or <u>BIOD65H3</u> Pathologies of the Nervous System or <u>BIOD26H3</u> Fungal Biology and Pathogenesis or <u>BIOD96Y3</u> Directed Research in Paramedicine\*]

- 1. PSYC08H3 Advanced Data Analysis in Psychology
- 2. <u>BIOD17H3</u> Seminars in Cellular Microbiology or <u>BIOD43H3</u> Animal Movement and Exercise or <u>BIOD29H3</u> Pathobiology of Human Disease
- 3. 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 Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

## PMDB30H3 - Alterations of Human Body Function I

Discusses how human body function is affected by a variety of patho-physiological 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 Requirements: 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 Requirements: 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 BIOA02H3 Corequisite: PMDB22H3 Exclusion: ANA300Y, ANA301H, BIOB33H3 Enrolment Limits: Restricted to students in the Specialist (Joint) Program in Paramedicine. Breadth Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: Natural Sciences

## Philosophy

#### Faculty List

- W.C. Graham, M.A., Ph.D. (Toronto), Professor Emeritus
- <u>B. Hellie</u>, B.A. (Stanford), Ph.D. (Princeton), Professor
- K. Hübner, B.A. (Williams), M.A. (Warwick), Ph.D. (Chicago), Associate 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), 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.

<u>PHLA10H3</u> and <u>PHLA11H3</u> 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. Foundational courses have been grouped into Areas of Focus, which serve as prerequisites to the C-level seminars (see Table 1.0).

C-level seminars in Philosophy are advanced courses for students who have completed an introductory course in the relevant Area of Focus (see Table 1.0). (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.

#### Table 1.0: Philosophy Courses by Area of Focus

Value Theory	Mind, Metaphysics and Epistemology	History of Philosophy
PHLB02H3 Environmental Ethics PHLB05H3 Social Issues PHLB06H3 Business Ethics PHLB07H3 Ethics PHLB09H3 Biomedical Ethics (PHLB08H3) Ethics and International Development (PHLB36H) Nature and Ethics in the Early Modern Era	PHLB20H3 Belief, Knowledge, and Truth PHLB55H3 Puzzles and Paradoxes PHLB60H3 Introduction to Metaphysics PHLB81H3 Theories of Mind (PHLB70H3) Philosophy of Science (PHLB72H3) Metaphysics of Science: Emergence and Reduction in the Sciences (PHLB80H3) Philosophy of Language (PHLB86H3) Foundations of Cognitive Science	PHLB31H3 Introduction to Ancient Philosophy PHLB33H3 God, Self World PHLB35H3 Introduction to Early Modern Philosophy (PHLB16H3) Political Philosophy: Ancient Greece and the Middle Ages (PHLB36H3) Nature and Ethics in the Early Modern Era

\*Students who have completed, in a previous session, a course that is no longer being offered (i.e., appears in round brackets) may make use of that course to fulfill the prerequisite requirement.

Students who unsure whether they meet a course prerequisite are encouraged to contact the program supervisor for further guidance: <a href="mailto:philosophy-program-supervisor@utsc.utoronto.ca">philosophy-program-supervisor@utsc.utoronto.ca</a>.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **Philosophy Programs**

## SPECIALIST PROGRAM IN PHILOSOPHY (ARTS)

Program Supervisor: S. Sedivy Email: philosophy-program-supervisor@utsc.utoronto.ca

#### **Program Requirements**

Students must complete at least 12.0 credits in Philosophy including <u>PHLB50H3</u> Symbolic Logic I or <u>PHLB55H3</u> 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. <u>MATC09H3</u> 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**: <u>PHLB99H3</u> 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.

## SPECIALIST (CO-OPERATIVE) PROGRAM IN PHILOSOPHY (ARTS)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Philosophy is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Philosophy upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Philosophy.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Philosophy and have completed at least 9.0 credits, including one of <u>PHLB50H3</u>, <u>PHLB55H3</u> or <u>MATC09H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term

#### 3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>
- This course will be completed four months in advance of the first work scheduled work term

#### 4. <u>COPD12H3</u> – Integrating Your Work Term Experience Part I

- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## **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 <u>PHLB50H3</u> Symbolic Logic 1 *or* <u>PHLB55H3</u> Puzzles and Paradoxes and at least 3.0 credits must be at the C- or D-level. <u>MATC09H3</u> can be used as a Philosophy course for these purposes.

**Note**: <u>PHLB99H3</u> 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 (CO-OPERATIVE) PROGRAM IN PHILOSOPHY (ARTS)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Philosophy is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Philosophy upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Philosophy.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Philosophy and have completed at least 9.0 credits, including one of <u>PHLB50H3</u>, <u>PHLB55H3</u> or <u>MATC09H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are

recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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. <u>MATC09H3</u> 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.

**Exclusion:** PHL100Y1, PHL101Y1 **Breadth Requirements:** 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, PHL100Y1, PHL101Y1 **Breadth Requirements:** 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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, selfdeception, and freedom of choice.

**Exclusion:** PHL220H **Breadth Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

## PHLB33H3 - God, Self, World

This course is a thematic introduction to the history of metaphysics, focusing on topics such as the nature of God, our own nature as human beings, and our relation to the rest of the world. We will read a variety of texts, from ancient to contemporary authors, that will introduce us to concepts such as substance, cause, essence and existence, mind and body, eternity and time, and the principle of sufficient reason. We will also look at the ethical implications of various metaphysical commitments.

**Breadth Requirements:** History, Philosophy & Cultural Studies

### PHLB35H3 - Introduction to Early Modern Philosophy

This course is an introduction to the major themes and figures of seventeenth and eighteenth century philosophy, from Descartes to Kant, with emphasis on metaphysics, epistemology, and ethics.

Exclusion: PHL210Y Breadth Requirements: 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 Requirements: Quantitative Reasoning

### PHLB55H3 - Puzzles and Paradoxes

Time travel, free will, infinity, consciousness: puzzling and paradoxical issues like these, brought under control with logic, are the essence of philosophy. Through new approaches to logic, we will find new prospects for understanding philosophical paradoxes.

Breadth Requirements: 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 Requirements:** History, Philosophy & Cultural Studies

### PHLB81H3 - 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

### 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 Requirements:** 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:** Any 4.5 credits and [PHLB03H3 and an additional 1.0 credit in PHL courses] **Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus – see Table 1.0 for reference] **Exclusion:** (PHLC01H3), PHL375H

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus – see Table 1.0 for reference]

Exclusion: (PHLC01H3), PHL375H

**Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLC07H3 - Death and Dying

An intermediate-level study of the ethical and legal issues raised by death and dying. Topics may vary each year, but could include the definition of death and the legal criteria for determining death, the puzzle of how death can be harmful, the ethics of euthanasia and assisted suicide, the relationship between death and having a meaningful life, and the possibility of surviving death.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus, see Table 1.0 for reference] **Exclusion:** PHL381H1

**Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLC08H3 - Topics in Arabic and Jewish Philosophy

This is an advanced, reading and discussion intensive course in the history of Arabic and Jewish thought, beginning with highly influential medieval thinkers such as Avicenna (Ibn Sīnā), al-Ghazālī, Al Fārābī, Averroes (Ibn Rushd), and Maimonides, and ending with 20th century philosophers (among them Arendt, Freud and Levinas).

**Prerequisite:** Any 4.5 credits and [and additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus – see Table 1.0 for reference]

**Breadth Requirements:** History, Philosophy & Cultural Studies

### PHLC09H3 - Topics in Continental Philosopy

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, and Gilles Deleuze, among others.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses] **Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLC10H3 - Topics in Bioethics

An intermediate-level study of bioethical issues. This course will address particular issues in bioethics in detail. Topics will vary from year to year, but may include such topics as reproductive ethics, healthcare and global justice, ethics and mental health, the patient-physician relationship, or research on human subjects.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus, see Table 1.0 for reference] **Recommended Preparation:** PHLB09H3 is strongly recommended

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory sub-discipline area of focus – see Table 1.0 for reference]

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference]

Exclusion: PHL332H

**Breadth Requirements:** 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, Scepticism, Epistemic Justification, Rationality and Rational Belief Formation.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference] **Exclusion:** PHL332H

Breadth Requirements: History, Philosophy & Cultural Studies

### PHLC31H3 - Topics in Ancient Philosophy: Plato

This course examines the foundational work of Plato in the major subject areas of philosophy: ethics, politics, metaphysics, theory of knowledge and aesthetics.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus, see Table 1.0 for reference]

Exclusion: PHL303H1

**Recommended Preparation:** PHLB31H3 is strongly recommended

**Breadth Requirements:** History, Philosophy & Cultural Studies

### PHLC32H3 - Topics in Ancient Philosophy: Aristotle

This course examines the foundational work of Aristotle in the major subject areas of philosophy: metaphysics, epistemology, ethics, politics, and aesthetics.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus, see Table 1.0 for reference]

Exclusion: PHL304H1

**Recommended Preparation:** PHLB31H3 strongly recommended

**Breadth Requirements:** History, Philosophy & Cultural Studies

### PHLC35H3 - 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus – see Table 1.0 for reference]

#### Exclusion: PHL310H

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the History of Philosophy area of focus – see Table 1.0 for reference] **Exclusion:** PHL311H **Breadth Requirements:** 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:** Any 4.5 credits and [[ PHLB33H3 or PHLB35H3] and additional 1.0 credit in PHL courses] **Exclusion:** PHL314H

**Breadth Requirements:** 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 discovery of mathematical logic, its motivations from and consequences for metaphysics and the philosophy of mind.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, including PHLB50H3 and 0.5 credit from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference] **Exclusion:** PHL325H **Breadth Requirements:** 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 Requirements: 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: Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference] Exclusion: PHL331H, PHL332H (UTM only) Breadth Requirements: 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference] **Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference]

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference]

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference]

**Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLC92H3 - Political Philosophy

An examination of some central philosophical problems of contemporary political philosophy.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus – see Table 1.0 for reference]

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Value Theory area of focus – see Table 1.0 for reference]

**Breadth Requirements:** 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:** Any 4.5 credits and [an additional 1.5 credits in PHL courses, of which 0.5 credit must be from the Mind, Metaphysics and Epistemology area of focus – see Table 1.0 for reference]

**Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLC99H3 - Philosophical Development Seminar

This course aims to foster a cohesive cohort among philosophy specialists and majors. The course is an intensive seminar that will develop advanced philosophical skills by focusing on textual analysis, argumentative techniques, writing and oral presentation. Students will work closely with the instructor and their peers to develop a conference-style, research-length paper. 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 students in the Specialist and Major programs in Philosophy.

**Prerequisite:** Any 4.5 credits and [an additional 1.5 credits in PHL courses]

**Breadth Requirements:** 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 PHL courses, including [[ PHLC05H3 or PHLC06H3] and 0.5 credit at the C-level] **Exclusion:** PHL407H, PHL475H **Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLD09H3 - Advanced Seminar in Bioethics

This advanced seminar will delve deeply into an important topic in bioethics. The topics will vary from year to year. Possible topics include: a detailed study of sperm and ovum donation; human medical research in developing nations; informed consent; classification of mental illness.

**Prerequisite:** 3.5 credits in PHL courses, including [PHLC10H3 and 0.5 credit at the C-level] **Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLD20H3 - Advanced Seminar in Theory of Knowledge

This courses 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 PHL courses, including [[ PHLC20H3 or PHLC22H3] and 0.5 credit at the C-level] **Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLD31H3 - Advanced Seminar in Ancient Philosophy

This course offers in-depth examination of selected topics from the philosophy of Plato and Aristotle, as well as the Epicurean and Stoic schools of thought. Topics will range from the major areas of philosophy: metaphysics, epistemology, ethics, politics and aesthetics.

**Prerequisite:** 3.5 credits in PHL courses, including [PHLC31H3 or PHLC32H3] and an additional 0.5 credit at the C-level

**Recommended Preparation:** It is strongly recommended that students take both PHLC31H3 and PHLC32H3. **Breadth Requirements:** 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 PHL courses, including [PHLC35H3 and 0.5 credit at the C-level] **Breadth Requirements:** History, Philosophy & Cultural Studies

## PHLD36H3 - Advanced Seminar in Empiricism

In this course, we will explore in depth certain foundational topics in the philosophy of Berkeley and Hume, with an eye to elucidating both the broadly Empiricist motivations for their approaches and how their approaches to key topics differ. Topics may address the following questions: Is there a mind-independent world? What is causation? Is the ontological or metaphysical status of persons different from that of ordinary objects? Does God exist?

**Prerequisite:** 3.5 credits in PHL courses, including [PHLC36H3 and an additional 0.5 credit at the C-level] **Breadth Requirements:** 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 PHL courses, including [PHLC43H3 and 0.5 credit at the C-level] Exclusion: PHL325H, (PHLC44H3) Breadth Requirements: 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 Requirements: 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 PHL courses, including 1.0 credit at the C-level

**Breadth Requirements:** 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 PHL courses, including 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 PHL courses, including [[ PHLC95H3 or PHLC86H3] and 0.5 credit at the C-level] Exclusion: PHL405H Recommended Preparation: PHLC95H3 Breadth Requirements: 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.

## **Physical Sciences**

### Students considering, or enrolled in, a program in Physical Sciences should note the following:

1. MATA30H3 is a strictly enforced corequisite for both PHYA10H3 and PHYA11H3.

2. Any one of <u>MATA35H3</u>, <u>MATA36H3</u>, or <u>MATA37H3</u> is a suitable corequisite for <u>PHYA21H3</u> and <u>PHYA22H3</u>. However, please keep in mind that:

a. <u>MATA35H3</u> is the course best suited for students in life sciences programs that are not planning to pursue further physical sciences programs or advanced MAT courses.

b. <u>MATA36H3</u> is the recommended course for students interested in programs in physical sciences and not planning on advanced MAT courses.

c. <u>MATA37H3</u> is the recommended course for students interested in programs in physical sciences in conjunction with advanced MAT courses.

3. Students planning to combine a program listed below with any program in mathematics are advised to take <u>MATA37H3</u> as this course provides the background and pre-requisite for advanced MAT courses.

4. The course <u>MATA67H3</u> is a pre-requisite for <u>MATA37H3</u>. Additionally, <u>MATA67H3</u> is a recommended course for students pursuing any of the programs listed below as it will enhance the foundational skills required for discussions on the theories presented in advanced courses in PHY, AST, and MAT.

5. Given the current nature of research in the Physical Sciences, students interested in any of the programs listed below are advised to take an introductory course in programming in their first year of studies. Suitable options include <u>CSCA08H3</u> for students with interest in subsequent programming courses, or <u>CSCA20H3</u> for students without interest in subsequent programming courses.

6. The course <u>MATB24H3</u> is a strongly recommended option for students in their second year of studies following any of the programs listed below. This course will enhance the mathematical preparation of students for topics in core areas of Classical Mechanics, Electromagnetism, and Quantum Mechanics, as well as provide quantitative and analytical skills needed for advanced studies in most fields in physical sciences.

### 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.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

### SPECIALIST PROGRAM IN PHYSICAL AND MATHEMATICAL SCIENCES (SCIENCE)

Supervisor: Pawel Artymowicz (416-287-7244) Email: <u>pawel@utsc.utoronto.ca</u> (Fall) and Diana Valencia (416-208-2986) Email: <u>dvalencia@utsc.utoronto.ca</u> (Winter)

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 Physics I for the Physical Sciences PHYA21H3 Physics II for the Physical Sciences CHMA10H3 Introductory Chemistry I: Structure and Bonding CHMA11H3 Introductory Chemistry II: Reactions and Mechanisms MATA30H3 Calculus I for Physical Sciences MATA23H3 Linear Algebra I IMATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences] CSCA20H3 Introduction to Programming\* \*Note: CSCA08H3\*\* may be substituted for CSCA20H3

#### Second Year

PHYB10H3Intermediate Physics Laboratory IPHYB56H3Introduction to Quantum PhysicsPHYB21H3Electricity and MagnetismPHYB52H3Thermal PhysicsMATB24H3Linear Algebra IIMATB41H3Techniques of the Calculus of Several Variables IMATB42H3Techniques of the Calculus of Several Variables IIMATB44H3Differential 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 STAB52H3 An Introduction to Probability]

#### Third or Fourth Year

4.0 credits from the following: 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 CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics CSCD37H3 Analysis of Numerical Algorithms for Computational Mathematics 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]

\*Note: To satisfy prerequisite requirements of upper level Computer Science Courses, students planning to take such courses should take <u>CSCA08H3</u>, rather than <u>CSCA20H3</u>, which is otherwise preferred for this program.

### MAJOR PROGRAM IN PHYSICAL SCIENCES (SCIENCE)

Supervisor: Diana Valencia (416-208-2986) Email: dvalencia@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 credits as follows:

#### First Year:

<u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA21H3</u> Physics II for the Physical Sciences <u>CHMA10H3</u> Introductory Chemistry I: Structure and Bonding <u>CHMA11H3</u> Introductory Chemistry II: Reactions and Mechanisms <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA23H3</u> Linear Algebra I [MATA36H3 Calculus II for Physical Sciences *or* MATA37H3 Calculus II for Mathematical Sciences]

#### Second or Third Year

2.5 credits from the following: 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 MATB42H3 Techniques of the Calculus of Several Variables II MATB42H3 Techniques of the Calculus of Several Variables II MATB42H3 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

2.0 credits from the following: <u>ASTC25H3</u> Astrophysics of Planetary Systems <u>MATC34H3</u> Complex Variables <u>MATC46H3</u> Differential Equations II <u>PHYC50H3</u> Electromagnetic Theory <u>PHYC56H3</u> Quantum Mechanics I <u>PHYC11H3</u> Intermediate Physics Laboratory II <u>PHYC54H3</u> Classical Mechanics <u>PHYD37H3</u> Introduction to Fluid Mechanics <u>PHYD38H3</u> Introduction to Fluid Mechanics <u>PHYD38H3</u> Introduction to Nonlinear Systems and Chaos <u>PSCB57H3</u> Introduction to Scientific Computing <u>PSCD02H3</u> Current Questions in Mathematics and Science <u>PHYD26H3</u> 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**

### 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 Requirements: Quantitative Reasoning

## PSCB90H3 - Physical Sciences Research Experience

This course provides an opportunity for students to work with a faculty member, Students will provide assistance with one of the faculty member's research projects, while also earning credit. Students will gain first-hand exposure to current research methods, and share in the excitement of discovery of knowledge acquisition. Progress will be monitored by regular meetings with the faculty member and through a reflective journal. Final results will be presented in a written report and/or a poster presentation at the end of the term. Approximately 120 hours of work is expected for the course.

**Prerequisite:** Permission of the Course Coordinator **Recommended Preparation:** Completion of at least 4.0 credits in a relevant discipline.

Breadth Requirements: Natural Sciences

**Note:** Students must send an application to the course Coordinator for admission into this course. Applications must be received by the end of August for Fall enrolment, December 15th for Winter enrolment, and end of April for Summer enrolment. Typically, students enrolled in a program offered by the Department of Physical and Environmental Sciences and students who have a CGPA of at least 2.5 or higher are granted admission. Approved students will receive a signed course enrolment form that will be submitted to the Office of the Registrar.

Applications will include:

1) A letter of intent indicating the student's wish to enrol in the course;

2) A list of relevant courses successfully completed by the student, as well as any relevant courses to be taken during the upcoming semester;

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.

### 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 <u>PSCD01H3</u> 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 Requirements:** 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 or enrolment in the Minor Program in Natural Sciences and Environmental Management **Exclusion:** PHY342H **Breadth Requirements:** Natural Sciences

552

### PSCD11H3 - 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.

Prerequisite: Any 14.5 credits Exclusion: (PSCA01H3) Breadth Requirements: Arts, Literature & Language

## 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 Requirements: Natural Sciences

## **Physics and Astrophysics**

### **Faculty List**

- <u>P. Artymowicz</u>, 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
- <u>C.C. Dyer</u>, 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), 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. (Cantab), 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, 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, or the Specialist Program in Environmental Physics.

### Students interested, or enrolled in, a Physics programs should note the following:

1. MATA30H3 is a strictly enforced corequisite for both PHYA10H3 and PHYA11H3.

2. Any one of <u>MATA35H3</u>, <u>MATA36H3</u>, or <u>MATA37H3</u> is a suitable corequisite for <u>PHYA21H3</u> and <u>PHYA22H3</u>. However, please keep in mind that:

a. <u>MATA35H3</u> is the course best suited for students in life sciences programs that are not planning to pursue further physical sciences programs or advanced MAT courses.

b. <u>MATA36H3</u> is the recommended course for students interested in programs in physical sciences and not planning on advanced MAT courses.

c. <u>MATA37H3</u> is the recommended course for students interested in programs in physical sciences in conjunction with advanced MAT courses.

3. Students planning to combine a program listed below with any program in mathematics are advised to take <u>MATA37H3</u> as this course provides the background and pre-requisite for advanced MAT courses.

4. The course <u>MATA67H3</u> is a pre-requiste for <u>MATA37H3</u>. Additionally, <u>MATA67H3</u> is a recommended course for students pursuing any of the programs listed below as it will enhance the foundational skills required for discussions on the theories presented in advanced courses in PHY, AST, and MAT.

5. Given the current nature of research in the physical sciences students interested in any of the programs listed below are advised to take an introductory course in programming in their first year of studies. Suitable options include <u>CSCA08H3</u> for students with interest in subsequent programming courses, or <u>CSCA20H3</u> for students without interest in subsequent programming courses.

6. The course <u>MATB24H3</u> is a strongly recommended option for students in their second year of studies following any of the programs listed below. This course will enhance the mathematical preparation of students for topics in core areas of Classical Mechanics, Electromagnetism, and Quantum Mechanics, as well as provide quantitative and analytical skills needed for advanced studies in most fields in physical sciences

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 <u>Combined Degree Programs</u> section of this *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Physics And Astrophysics Programs**

### SPECIALIST PROGRAM IN ENVIRONMENTAL PHYSICS (SCIENCE)

Supervisors of Studies: J. Lowman (416 208-4880) Email: <u>lowman@utsc.utoronto.ca</u> and T. Mohsin (416 287-7245) Email: <u>tanzina.mohsin@utoronto.ca</u>

#### **Program Requirements**

Total Requirements: 15.5 credits

#### First Year (4.0 credits):

PHYA10H3 Physics I for the Physical Sciences PHYA21H3 Physics II for the Physical Sciences 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):

<u>PHYB10H3</u> 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 and 1.0 credit 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 (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 and 0.5 credit from the following: PHYC50H3 Electromagnetic Theory PHYC54H3 Classical Mechanics and 1.0 credit from the following: 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 and 2.0 credits from the following: 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\* EESD13H3 Environmental Law, Policy and Ethics EESD33H3 Field Techniques 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 (CO-OPERATIVE) PROGRAM IN ENVIRONMENTAL PHYSICS (SCIENCE)

Co-op Supervisor of Studies: Julian Lowman (416-208-4880; Email: <u>lowman@utsc.utoronto.ca</u>; and Tanzina Mohsin (416-287-7245); Email: <u>tanzina.mohsin@utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Specialist (Co-op) Program in Environmental Physics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Environmental Physics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 3.5 credits, including <u>CHMA10H3</u>, <u>CHMA11H3</u>, <u>EESA06H3</u>, <u>MATA30H3</u>, [<u>MATA36H3</u> or <u>MATA237H3</u>], <u>PHYA10H3</u> and <u>PHYA21H3</u>, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in Specialist Program in Environmental Physics.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Environmental Physics and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. COPD11H3 Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: <u>COPD11H3</u> and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## SPECIALIST PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)

Supervisor: J. Bayer (416-287-7327) Email: jbayer@utsc.utoronto.ca

### Program Requirements:

The Program requires 13.5 credits as follows:

### First Year

PHYA10H3 Physics I for the Physical Sciences PHYA21H3 Physics II for the Physical Sciences MATA30H3 Calculus I for Physical Sciences MATA23H3 Linear Algebra I [MATA36H3 Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences] CSCA20H3 Introduction to Programming\* \*Note: CSCA08H3\*\* may be substituted for CSCA20H3

### 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

PHYC50H3Electromagnetic TheoryPHYC56H3Quantum Mechanics IPHYC11H3Intermediate Physics Laboratory IIPHYC54H3Classical MechanicsPSCB57H3Introduction to Scientific Computing

MATC34H3 Complex Variables MATC46H3 Differential Equations II

#### **Fourth Year**

1.5 credit from the following: 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 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 and 0.5 credit from the following: PHYD01H3 Research Project in Physics and Astrophysics PHYD72H3 Supervised Reading in Physics and Astrophysics and 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

\*\***Note:** To satisfy prerequisite requirements of upper level Computer Science Courses, students planning to take such courses should take <u>CSCA08H3</u>, rather than <u>CSCA20H3</u>, which is otherwise preferred for this program.

### **MAJOR PROGRAM IN PHYSICS AND ASTROPHYSICS (SCIENCE)**

Supervisor: D. Valencia (416-208-2986) Email: dvalencia@utsc.utoronto.ca

#### **Program Requirements**

This program requires 8.5 credits as follows:

#### **First Year**

<u>PHYA10H3</u> Physics I for the Physical Sciences <u>PHYA21H3</u> Physics II for the Physical Sciences <u>MATA30H3</u> Calculus I for Physical Sciences <u>MATA23H3</u> Linear Algebra I [<u>MATA36H3</u> Calculus II for Physical Sciences *or* <u>MATA37H3</u> 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 and 1.5 credits from the following: PHYB56H3 Introduction to Quantum Physics PHYB21H3 Electricity and Magnetism

PHYB52H3 Thermal Physics PHYB54H3 Mechanics: From Oscillations to Chaos and 2.0 credits from the following: 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 - Physics I for the Physical Sciences

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) and Calculus and Vectors (MCV4U) and Advanced Functions (MHF4U) Corequisite: MATA30H3 or MATA31H3 Exclusion: PHYA11H3, PHY131H, PHY135Y, PHY151H, (PHY110Y), (PHY138Y) Breadth Requirements: Natural Sciences

# PHYA11H3 - Physics I for the Life Sciences

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 Requirements:** Natural Sciences

## PHYA21H3 - Physics II for the Physical Sciences

This second physics course is intended for students in physical and mathematical sciences programs. Topics include electromagnetism and special relativity.

Prerequisite: PHYA10H3, [MATA30H3 or MATA31H3] 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 Requirements: Natural Sciences

## PHYA22H3 - Physics II for the Life Sciences

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) and MATA35H3 do not allow for many future programs in science.

Exclusion: PHYA21H3, (PHY110Y), PHY132H, PHY135Y, (PHY138Y), PHY152H Breadth Requirements: 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 Requirements: 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 Requirements: 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 and MATB41H3 Corequisite: MATB42H3 Exclusion: PHY241H, PHY251H Breadth Requirements: Natural Sciences

### **PHYB52H3 - 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 Requirements: 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 Requirements: 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 onedimension.

Prerequisite: PHYA21H3, MATA36H3 Corequisite: MATB41H3 Exclusion: PHY256H, (PHYB25H3) Breadth Requirements: 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 Requirements: 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 Requirements: 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 Requirements: 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 Requirements: Natural Sciences

## PHYC83H3 - Introduction to General Relativity

An introduction to the basic principles and mathematics of General Relativity. Tensors will be presented after a review of Special Relativity. The metric, spacetime, curvature, and Einstein's field equations will be studied and applied to the Schwarzschild solution. Further topics include the Newtonian limit, classical tests, and black holes.

Prerequisite: MATB42H3 and MATB44H3 and PHYB54H3 Corequisite: MATC46H3 Breadth Requirements: 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 Requirements:** 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 Requirements:** 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 Requirements:** 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 Requirements:** 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; constituitive 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:** PHYB54H3 and MATC46H3 **Breadth Requirements:** 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 Requirements: Natural Sciences

### PHYD57H3 - Advanced Computational Methods in Physics

Intermediate and advanced topics in numerical analysis with applications to physical sciences. Ordinary and partial differential equations with applications to potential theory, particle and fluid dynamics, multidimensional optimization and machine intelligence, are explained. The course includes programming in Python, and C or Fortran, allowing multi-threading and vectorization on multiple platforms.

#### Prerequisite: PSCB57H3

**Breadth Requirements:** Natural Sciences **Note:** Priority will be given to students enrolled in the Specialist in Physical and Mathematical Sciences and the Major in Physical 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 Requirements:** Natural Sciences

## **Political Science**

#### Faculty List

- <u>A. Ahmad</u>, B.A., M.A. (Toronto), Ph.D. (McGill), Assistant Professor
- E.G. Andrew, B.A. (British Columbia), Ph.D. (London), Professor Emeritus
- C. Cochrane, B.A. (St. Thomas), M.A. (McGill), Ph.D. (Toronto), Associate 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
- <u>R. Hurl</u>, B.A. (Toronto), M.A., Ph.D. (Cornell University), Lecturer
- F. Kahraman, B.A. (Boğaziçi University), M.A., Ph.D. (Washington), Assistant Professor
- P. Kingston, B.A. (Toronto), M.A. (London), D.Phil. (Oxford), 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), Associate Professor, Teaching Stream
- R. Manzer, B.A., B.Ed. (New Brun.), M.A. (Oxon.), Ph.D. (Harvard), Professor Emeritus
- C. Norrlof, B.A., M.A. (Lund), Ph.D. (Geneva), Associate Professor
- S. Renckens, B.A., M.A., M.Sc. (Leuven), Ph.D. (Yale), Assistant Professor
- <u>A. Rubinoff</u>, A.B. (Allegheny), 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), Professor

Acting Chair: M. Kohn (July 1, 2017 to June 30, 2018) Chair: Grace Skogstad Program Advisor 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 Government and Politics:** content covers the political-institutional foundations, political processes and public policies of Canada.

**Comparative Politics** (Developing and Developed Countries): courses cover 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:** courses focus on studying the foreign policies of particular nation-states and the patterns of conflict and co-operation among states.

**Political Theory:** courses explore 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:** courses examine the context, institutions, and processes of policy-making and implementation, as well as concepts and criteria for policy evaluation.

#### Guidelines for firs 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: 1.0 credit at the A-level in Political Science.
- Public Policy: 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 credit at the A-level in Political Science is recommended.

### Political Science Areas of Focus Table:

\* indicates a course can be applied to more than one field

International Relations	Political Theory	Public Policy	Canadian Government and Politics	Comparative Politics
RelationsPOLB80H3Introduction toInternationalRelations IPOLB81H3Introduction toInternationalRelations IIPOLC09H3InternationalSecurity: Conflict,Crisis and WarPOLC38H3International LawPOLC69H3 PoliticalEconomy:International andComparativePerspectives*POLC80H3InternationalRelations of AfricaPOLC83H3Applications ofAmerican ForeignPolicy*POLC87H3InternationalCooperation andInstitutionsPOLC88H3POLC88H3International AgendaPOLC98H3International Relations of EthnicConflictPOLD9H3InternationalRelations of EthnicConflictPOLD9H3InternationalRelations of EthnicConflictPOLD87H3 RationalChoice andInternationalCooperationPOLD89H3GlobalEnvironmentalPolitics	POLB30H3 Law, Justice, and Rights POLB72H3 Introduction to Political Theory POLC37H3 Global Justice POLC70H3 Political Thought: Foundations of Justice, Citizenship and Power POLC71H3 Political Thought: Rights, Revolution and Resistance POLC72H3 Liberty POLC73H3 Modern Political Theory POLC74H3 Contemporary Political Thought POLC79H3 Feminist Political Thought POLD30H3 Legal Reasoning POLD45H3 Constitutionalism POLD67H3 The Limits of Rationality* POLD70H3 Topics in Political Theory	POLC11H3 Applied Statistics for Politics and Public Policy POLC36H3 Law and Public Policy POLC53H3 Canadian Environmental Policy* POLC54H3 Intergovernmental Relations in Canada* POLC57H3 Intergovernmental Relations and Public Policy* POLC65H3 Political Strategy PPGC66H3 Public Policy Making* PPGC67H3 Public Policy in Canada* POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms* POLC83H3 Applications of American Foreign Policy* POLC93H3 Public Policys* POLC93H3 Public Policys POLC93H3 Public Policys POLC93H3 Public Policys POLC93H3 Public Policys POLC93H3 Public Policys POLD50H3 Political Interests, Political Interest, POLD52H3 Immigration and Canadian Political Development* PPGD64H3 Comparative Public	Government and Politics POLB50Y3 Canadian Government and Politics POLC21H3 Voting and Elections* POLC32H3 The Canadian Judicial System POLC53H3 Canadian Environmental Policy* POLC56H3 Intergovernmental Relations in Canada* POLC56H3 Indigenous Politics and Law POLC56H3 Intergovernmental Relations and Public Policy* POLC58H3 The Politics of National Identity and Diversity* POLC59H3 Sources of Power: The Crown, Parliament and the People PPGC66H3 Public Policy Making* PPGC67H3 Public Policy Making* PPGC67H3 Public Policy in Canada* POLC68H3 The Constitution of Canada and the Charter of Rights and Freedoms* POLD50H3 Political Interests, Political Interests, Political Identity, and Public Policy* POLD50H3 Topics in Canadian and	Politics POLB90H3 Comparative Development in International Perspective POLB91H3 Comparative Development in Political Perspective POLB92H3 Comparative Politics: Revolution, Democracy and Authoritarianism POLC16H3 Chinese Politics POLC21H3 Voting and Elections* POLC22H3 Ethnic Conflict and Democratization in Europe After the Cold War POLC39H3 Comparative Legal Systems POLC42H3 Topics in Comparative Politics POLC58H3 The Politics of National Identity and Diversity* PPGC66H3 Public Policy Making* POLC69H3 Political Economy: International and Comparative Perspectives* POLC83H3 Applications of American Foreign Policy* POLC90H3 Development Studies: Political and
		Limits of Rationality* <u>POLD90H3</u> Public Policy and Human	Comparative Politics* <u>POLD52H3</u> Immigration and	Historical Perspectives <u>POLC91H3</u> Latin America:

International Relations	Political Theory	Public Policy	Canadian Government and Politics	Comparative Politics
		Development in the Global South*	Canadian Political Development* POLD53H3 Political Disagreement in Canada	Dictatorship and Democracy POLC92H3 The American Political Process POLC93H3 Public Policies in the United States* POLC94H3 Globalization, Gender and Development POLC96H3 State Formation and Authoritarianism in the Middle East POLC97H3 Protest Politics in the Middle East POLC99H3 Latin America: The Politics of the Dispossessed POLD51H3 Topics in Canadian and Comparative Politics* PPGD64H3 Comparative Public Policy* POLD67H3 The Limits of Rationality* POLD90H3 Public Policy and Human Development in the Global South* POLD91H3 Comparative Perspectives on Contentious Politics <u>POLD91H3</u> Survival and Demise of Dictatorships POLD94H3 Selected Topics on Developing Areas

**Service Learning and Outreach** For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **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):

<u>POLB80H3</u> Introduction to International Relations I <u>POLB81H3</u> Introduction to International Relations II <u>POLB90H3</u> Comparative Development in International Perspective <u>POLB91H3</u> Comparative Development in Political Perspective <u>POLB92H3</u> Comparative Politics: Revolution, Democracy and Authoritarianism

#### 5. Methods (1.0 credit):

[<u>STAB23H3</u> Introduction to Statistics for the Social Sciences or equivalent] <u>POLC78H3</u> 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):

<u>POLB80H3</u> Introduction to International Relations I <u>POLB81H3</u> Introduction to International Relations II <u>POLB90H3</u> Comparative Development in International Perspective <u>POLB91H3</u> Comparative Development in Political Perspective <u>POLB92H3</u> Comparative Politics: Revolution, Democracy and Authoritarianism

### 5. Methods (1.0 credit):

[<u>STAB23H3</u> Introduction to Statistics for the Social Sciences or equivalent] <u>POLC78H3</u> 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 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. 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

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 as follows (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 from the following):

POLC36H3 Law and Public Policy

POLC38H3 International Law POLC39H3 Comparative Legal Systems POLC56H3 Indigenous Politics and Law POLD30H3 Legal Reasoning POLD42H3 Advanced Topics in Public Law POLD45H3 Constitutionalism

**3.** 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 Requirements:** 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 Requirements:** Social & Behavioural Sciences **Note:** POLA01H3and 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 Requirements:** 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 Requirements: 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 Requirements: 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 Requirements: 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 aoverned.

Area of Focus: International Relations

Prerequisite: POLB80H3 Notelt is strongly recommended that students take POLB80H3 and POLB81H3 in consecutive sessions. Exclusion: POL208Y Breadth Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

### POLB92H3 - Comparative Politics: **Revolution, Democracy and** Authoritarianism

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 Requirements: 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 interstate conflict and covers conventional, nuclear, and nontraditional warfare.

Area of Focus: International Relations

Prerequisite: POLB80H3 and POLB81H3 Breadth Requirements: 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:** STAB23H3 or equivalent **Exclusion:** (POLB11H3) **Breadth Requirements:** Quantitative Reasoning

## **POLC16H3 - Chinese Politics**

This course covers a range of topics in contemporary Chinese politics and society post 1989. It exposes students to state of the art literature and probes beyond the news headlines. No prior knowledge of China required.

Area of Focus: Comparative Politics

Prerequisite: POLB90H3 or POLB91H3 Exclusion: JPA331Y, JMC031Y Breadth Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: Social & Behavioural Sciences

### POLC36H3 - Law and Public Policy

This course examines how different types of legal frameworks affect processes and outcomes of policymaking. 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 Requirements: 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 Requirements:** 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 Requirements: 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 Requirements: Social & Behavioural Sciences

### **POLC40H3 - 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 Requirements:** Social & Behavioural Sciences

## POLC42H3 - 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 Requirements:** Social & Behavioural Sciences

## POLC53H3 - 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 politicalinstitutional 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 Requirements:** Social & Behavioural Sciences

### POLC54H3 - 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 regionalisation and globalization. The legitimacy and performance of the federal system are appraised. Lectureseminar format.

Areas of Focus: Canadian Government and Politics; Public Policy

Prerequisite: POLB50Y3 or equivalent Exclusion: POL316Y Breadth Requirements: Social & Behavioural Sciences

## POLC56H3 - Indigenous Politics and Law

This course explores key historical and contemporary issues in indigenous politics. Focusing on the contemporary political and legal mobilization of Indigenous peoples, it will examine their pursuit of selfgovernment, land claims and resource development, treaty negotiations indigenous rights, and reconciliation. A primary focus will be the role of Canada's courts, its political institutions, and federal and provincial political leaders in affecting the capacity of indigenous communities to realize their goals. Area of Focus: Canadian Government and Politics

Prerequisite: POLB50Y3 or equivalent Exclusion: POL308H, ABS353H, ABS354H Breadth Requirements: Social & Behavioural Sciences

### POLC57H3 - 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 POLC54H3 **Exclusion:** POL316Y **Breadth Requirements:** Social & Behavioural Sciences

# POLC58H3 - 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 Requirements: Social & Behavioural Sciences

### POLC59H3 - Sources of Power: The Crown, Parliament and the People

Who are we as a people today? What role have consecutive vice regals played in more than 400 years of shaping our nation and its institutions? This course examines how the vice regal position in general, and how selected representatives in particular, have shaped Canada's political system

Areas of Focus: Canadian Government and Politics

**Prerequisite:** POLB50Y3 or equivalent **Exclusion:** POLC40H3 (if taken in 2014-Winter or 2015-Winter sessions)

Breadth Requirements: Social & Behavioural Sciences

## POLC65H3 - 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 Requirements:** Social & Behavioural Sciences

## POLC68H3 - 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: POLC32H3 Breadth Requirements: Social & Behavioural Sciences

### POLC69H3 - Political Economy: International and Comparative Perspectives

This course provides an introduction to the field of political economy from an international and comparative perspective. The course explores the globalization of the economy, discusses traditional and contemporary theories of political economy, and examines issues such as trade, production, development, and environmental change.

Areas of Focus: Comparative Politics; International Relations

Prerequisite: [1.0 credit from: POLB80H3, POLB81H3, POLB90H3, POLB91H3, POLB92H3] Exclusion: POL361H1 Breadth Requirements: Social & Behavioural Sciences

### POLC70H3 - Political Thought: Foundations of Justice, Citizenship and Power

This course introduces students to central concepts in political theory, such as justice, rights, and the state. Readings will include classical and medieval texts, such as Plato's *Republic* and Aristotle's *Politics*. Area of Focus: Political Theory

Prerequisite: POLB72H3 or PHLB17H3 Exclusion: POL200Y, (POLB70H3) Breadth Requirements: History, Philosophy & Cultural Studies

### POLC71H3 - Political Thought: Rights, Revolution and Resistance

This course introduces students to central concepts in political theory, such as sovereignty, liberty, and equality. Readings will include modern and contemporary texts, such as Hobbes' *Leviathan* and Locke's *Second Treatise of Government*.

Area of Focus: Political Theory

Prerequisite: POLB72H3 or PHLB17H3 Exclusion: POL200Y, (POLB71H3) Breadth Requirements: History, Philosophy & Cultural Studies
### POLC72H3 - Liberty

The course investigates the concept of political liberty in various traditions of political thought, especially liberalism, republicanism, and Marxism. The course will investigate key studies by such theorists as Berlin, Taylor, Skinner, Pettit, and Cohen, as well as historical texts by Cicero, Machiavelli, Hobbes, Hegel, Constant, Marx, and Mill. Area of Focus: Political Theory

**Prerequisite:** POLB72H3 or (POLB70H3) or (POLB71H3) **Breadth Requirements:** History, Philosophy & Cultural Studies

### POLC73H3 - 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 Requirements: 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 Requirements: 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 Requirements: Social & Behavioural Sciences

## POLC79H3 - Feminist Political Thought

This course examines the challenges and contributions of feminist political thought to the core concepts of political theory, such as rights, citizenship, democracy, and social movements. It analyzes the history of feminist political thought, and the varieties of contemporary feminist thought, including: liberal, socialist, radical, intersectional, and postcolonial.

Area of Focus: Political Theory

Prerequisite: POLB72H3 or [( POLB70H3) and ( POLB71H3)] or PHLB13H3 or WSTA03H3 Exclusion: POL432H Breadth Requirements: History, Philosophy & Cultural Studies

## 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 Requirements:** Social & Behavioural Sciences

## POLC83H3 - 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 Requirements: Social & Behavioural Sciences

## POLC87H3 - 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 Requirements: Social & Behavioural Sciences

## POLC88H3 - 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 and POLB81H3] or equivalent **Breadth Requirements:** Social & Behavioural Sciences

### POLC90H3 - 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 and POLB91H3 **Breadth Requirements:** Social & Behavioural Sciences

## POLC91H3 - 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 and POLB91H3] or equivalent **Exclusion:** POL305Y **Breadth Requirements:** Social & Behavioural Sciences

## POLC92H3 - The American Political Process

This course analyses the American federal system and the institutions and processes of government in the United States.

Area of Focus: Comparative Politics

**Prerequisite:** One full credit in Political Science at the B-level

Exclusion: POL203Y

Breadth Requirements: Social & Behavioural Sciences

### POLC93H3 - Public Policies in the **United States**

This course focuses on selected policy issues in the United States.

Areas of Focus: Comparative Politics; Public Policy

Prerequisite: One full credit in Political Science at the Blevel Exclusion: POL203Y

Breadth Requirements: Social & Behavioural Sciences

## POLC94H3 - Globalization, Gender and **Development**

This course explores the gendered impact of economic Globalization and the various forms of resistance and mobilization that women of the global south have engaged in their efforts to cope with that impact. The course pays particular attention to regional contextual differences (Latin America, Africa, Asia and the Middle East) and to the perspectives of global south women, both academic and activist, on major development issues. Area of Focus: Comparative Politics

Prerequisite: POLB90H3 Breadth Requirements: Social & Behavioural Sciences

### POLC96H3 - State Formation and Authoritarianism in the Middle East

This course examines the origins of, and political dynamics within, states in the contemporary Middle East. The first part of the course analyses states and state formation in historical perspective - examining the legacies of the late Ottoman and, in particular, the colonial period, the rise of monarchical states, the emergence of various forms of "ethnic" and/or "quasi" democracies, the onset of "revolutions from above", and the consolidation of populist authoritarian states. The second part of the course examines the resilience of the predominantly authoritarian state system in the wake of socio-economic and political reform processes.

Area of Focus: Comparative Politics

Prerequisite: POLB90H3 and [ POLB91H3 or POLB92H3] Breadth Requirements: Social & Behavioural Sciences

### POLC97H3 - 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 and [ POLB91H3 or POLB92H31 Breadth Requirements: 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 and POLB81H3 Exclusion: POL411H1 Enrolment Limits: 60 Breadth Requirements: 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 and POLB91H3] or equivalent Exclusion: POL305Y Breadth Requirements: Social & Behavioural Sciences

## POLD01H3 - 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

## POLD02Y3 - Senior Research Seminar in Political Science

This course provides an opportunity to carry out individual research on a Political Science topic. After class readings on the topic under study, research methods and design, and research ethics, students will propose and carry out their own research project. The seminar provides opportunities to present and discuss their unfolding research, as well as to present the findings of their research.

**Prerequisite:** A minimum 3.3 CGPA in Political Science courses and permission of the instructor; Restricted to students in the 4th year of the Specialist in Political Science program **Enrolment Limits:** 10

### 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: POL466H1, POL468H1 Recommended Preparation: POLC09H3 Enrolment Limits: 25 Breadth Requirements: Social & Behavioural Sciences

## POLD30H3 - Legal Reasoning

This course will introduce students to the ideas and methods that guide judges and lawyers in their work. How does the abstract world of the law get translated into predictable, concrete decisions? How do judges decide what is the "correct" decision in a given case? The class will begin with an overview of the legal system before delving into the ideas guiding statute drafting and interpretation, judicial review and administrative discretion, the meaning of "evidence" and "proof," constitutionalism, and appellate review. Time will also be spent exploring the ways that foreign law can impact and be reconciled with Canadian law in a globalizing world.

Area of focus: Political Theory

**Prerequisite:** POLB30H3 and POLC68H3 and [an additional 1.5 credits at the C-level in POL courses] **Enrolment Limits:** 25

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Minor in Public Law.

## POLD41H3 - 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

## 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 Requirements:** Social & Behavioural Sciences

## POLD45H3 - 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 aovernment.

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 Requirements: History, Philosophy & Cultural Studies

## 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 Requirements: Social & Behavioural Sciences

## 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 Requirements: 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 policy-making, 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 SOCB60H31 Enrolment Limits: 25 Breadth Requirements: 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 Requirements: Social & Behavioural Sciences

## POLD55H3 - The Politics of Equality and Inequality in Canada

This seminar provides an in-depth examination of the politics of inequality in Canada, and the role of the Canadian political-institutional framework in contributing to political, social and economic (in)equality. The focus will be on diagnosing how Canada's political institutions variously impede and promote equitable treatment of different groups of Canadians (such as First Nations, women, racial and minority groups) and the feasibility of possible institutional and policy reforms to promote goals of social and economic equity.

Area of Focus: Canadian Government and Politics

**Prerequisite:** [POLB50Y3 or equivalent] and [1.5 credits at the C-level in POL courses] **Enrolment Limits:** 25

Breadth Requirements: 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 Requirements:** 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 Requirements: 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; multiculturalism 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

### 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 Requirements:** 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 Requirements: 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] Exclusion: POL413H1 Enrolment Limits: 25 Breadth Requirements: 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 Requirements: Social & Behavioural Sciences

## **POLD91H3 - Comparative Perspectives** on Contentious Politics

This course examines contentious politics from a comparative perspective, beginning with the foundational theories of Charles Tilly, Sidney Tarrow, and Doug McAdam. It explores questions such as why people protest, how they organize, and the outcomes of contention. The second half of the course challenges students to examine popular contention across a range of states in Asia, the Middle East, Europe, and Latin America. It asks students to interrogate the applicability of the dynamics of contention framework to illiberal states in a comparative context. Area of Focus: Comparative Politics

Prerequisite: [POLB90H3 and POLB91H3] and [an additional 2.0 credits at the C-level in any courses] Exclusion: POL451H1 Enrolment Limits: 25 Breadth Requirements: 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 indepth examinations of regime crises in Ethiopia, Iran, China, the USSR, and South Africa. Area of Focus: Comparative Politics

Prerequisite: POLB92H3 and [ POLB90H3 or POLB91H3] and [an additional 2.0 credits at the C-level in anv courses] Enrolment Limits: 25 Breadth Requirements: 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 Clevel in any courses] **Enrolment Limits: 25** Breadth Requirements: 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

- B.C. Armstrong, B.Sc., M.A. (Toronto), M.S., Ph.D., (Carnegie Mellon), Assistant Professor
- <u>M. Arruda-Carvalho</u>, B.Sc., M.Sc. (Rio de Janeiro), Ph.D. (Toronto), Assistant Professor
- 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
- L. Cirelli, B.A. (Laurentian), Ph.D. (McMaster), Assistant Professor
- A. Cooper, B.A. (McMaster), M.A., Ph.D. (Ohio State), Assistant Professor, Teaching Stream
- <u>G.S. Cree</u>, B.A., M.A., Ph.D. (Western), Associate Professor
- G.C. Cupchik, B.A. (Michigan), M.A., Ph.D. (Wisconsin), Professor
- D.K. Danielson, B.A. (Duke), M.A. (Alberta), Ph.D. (UBC), Assistant Professor, Teaching Stream
- 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.Q. Ford, B.A., M.A. (Boston), Ph.D. (Berkeley), Assistant Professor
- B. Forrin, B.A. (Toronto), M.A., Ph.D. (Michigan), Professor Emeritus
- M.A. Fournier, B.A., Ph.D. (McGill), Associate Professor
- <u>V. Goghari,</u> B.A. (British Columbia), M.A., Ph.D. (Minnesota), Associate Professor
- D. W. Haley, B.A. (Annapolis), M.A. (San Francisco), Ph.D. (Albuquerque), Associate Professor
- <u>C. Hutcherson</u>, 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), Associate 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), 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. 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
- <u>M.C. Smith</u>, B.A. (Toronto), Ph.D. (MIT), Professor Emerita
- R. Smyth, B.A. (Carleton), M.Sc. (Alberta), Ph.D. (Alberta), Associate Professor
- M. Souza, B.A., M.A. (UC Davis), Ph.D. (Berkeley), Associate Professor, Teaching Stream
- 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

Associate Chair, Undergraduate and Program Supervisor: M. Souza

Program Manager: Hanan Domloge Undergraduate Advisor: Priya Sivathason Email: <u>psychology-undergraduate@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

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 <u>PSYD98Y3</u> (thesis course) in their undergraduate Program.

Two co-operative programs are offered, the Specialist (Co-op) Program in Psychology and the Specialist (Co-op) 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 the <u>Neuroscience</u> section of the *Calendar*.

#### 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 <u>PSYB07H3</u> and <u>PSYC08H3</u> 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.

#### Guidelines for first year course selection in Psychology

<u>PSYA01H3</u> and <u>PSYA02H3</u> 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 <u>Neuroscience</u> section of the *Calendar* for details.

#### **Courses in Psycholinguistics**

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 <u>PLIC24H3</u> First Language Acquisition <u>PLIC54H3</u> Speech Physiology and Speech Disorders in Children and Adults <u>PLIC55H3</u> Psycholinguistics PLIC75H3Language and the BrainPLID34H3The Psycholinguistics of ReadingPLID44H3Acquisition of the Mental LexiconPLID50H3Speech Perception(PLID55H3)Disorders of Speech and LanguagePLID56H3Special Topics in Language Disorders in Children

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

### **Psychology Programs**

### SPECIALIST PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply to the program after completing a minimum of 4.0 credits, including 1.0 credit in Psychology. Admission will require either: (1) a final grade of 72% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, or (2) a final grade of 64% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, and a final grade of 72% or higher in <u>PSYB01H3</u> and [<u>PSYB07H3</u> or equivalent].

Application for admission will be made to the Registrar through ACORN, in April/May and July/August.

#### **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. Introductory Psychology (1.0 credit)

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. Statistical Methods (1.0 credit)

<u>PSYB07H3</u> Data Analysis in Psychology [<u>PSYC08H3</u> Advanced Data Analysis in Psychology or <u>PSYC09H3</u> Applied Multiple Regression in Psychology]

#### 3. Laboratory Methods (1.0 credit)

<u>PSYB01H3</u> Psychological Research Laboratory <u>PSYC37H3</u> Psychological Assessment

#### 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

#### 5. PSYC85H3 History of Psychology (0.5 credit)

#### 6. 1.0 credit as follows:

<u>PSYB30H3</u> Introduction to Personality <u>PSYB32H3</u> Introduction to Clinical Psychology

## 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 <u>PSYB45H3</u> Introduction to Behaviour Modification <u>PSYC18H3</u> The Psychology of Emotion <u>PSYC35H3</u> Advanced Personality Psychology <u>PSYC36H3</u> Psychotherapy <u>PSYC39H3</u> Psychology and the Law

 Psycho-Biological Grouping

 [ PSYB55H3] Introduction to Cognitive Neuroscience or ( PSYB65H3) Human Brain and Behaviour]

 PSYB64H3

 Physiological Psychology

 PSYC31H3

 Clinical Neuropsychology

 PSYC33H3

 Neuropsychological Rehabilitation

 PSYC62H3

 Drugs and the Brain

#### 8. 1.0 credit at the D-level, with at least 0.5 credit from the following:

<u>PSYD30H3</u> Current topics in Personality Psychology <u>PSYD31H3</u> Cultural-Clinical Psychology <u>PSYD32H3</u> Personality Disorders <u>PSYD33H3</u> Current topics in Clinical Psychology <u>PSYD35H3</u> Clinical Psychopharmacology <u>PSYD39H3</u> Cognitive Behaviorial Therapy

#### 9. 1.5 additional credits in Psychology

#### 10. 2.0 credits from the following courses:

HLTB40H3 Health Policy and Health Systems HLTB41H3 Introduction to the Social Determinants of Health HLTB50H3 Introduction to Health Humanities (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 SOCB50H3 Deviance and Normality I

## SPECIALIST (CO-OPERATIVE) PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

#### Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Mental Health Studies is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Mental Health upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits including <u>PSYA01H3</u> and <u>PSYA02H3</u> plus a cumulative GPA of at least 2.75. Grades in both of <u>PSYA01H3</u> and <u>PSYA02H3</u> must be 72% or higher.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above. 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 Program in Mental Health Studies who have completed 10.0 credits or more, are not eligible to transfer to the Specialist Co-op Program in Psychology or vice-versa.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program 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. Introduction to Psychology (1.0 credit)

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. Statistical Methods (1.0 credit)

<u>PSYB07H3</u> Data Analysis in Psychology [<u>PSYC08H3</u> Advanced Data Analysis in Psychology or <u>PSYC09H3</u> Applied Multiple Regression in Psychology]

#### 3. Laboratory Methods (1.5 credits)

<u>PSYB01H3</u> Psychological Research Laboratory <u>PSYC32H3</u> Clinical Neuropsychology Laboratory <u>PSYC37H3</u> Psychological Assessment

#### 4. PSYC02H3 Scientific Communication in Psychology (0.5 credit)

#### 5. PSYC85H3 History of Psychology (0.5 credit)

#### 6. 1.0 credit as follows:

<u>PSYB30H3</u> Introduction to Personality <u>PSYB32H3</u> Introduction to Clinical Psychology

## 7. 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 GroupingPSYB45H3Introduction to Behaviour ModificationPSYC18H3The Psychology of EmotionPSYC35H3Advanced Personality PsychologyPSYC36H3PsychotherapyPSYC39H3Psychology and the Law

Psycho-Biological Grouping [<u>PSYB55H3</u> Introduction to Cognitive Neuroscience or (<u>PSYB65H3</u>) Human Brain and Behaviour] <u>PSYB64H3</u> Physiological Psychology <u>PSYC33H3</u> Neuropsychological Rehabilitation <u>PSYC62H3</u> Drugs and the Brain 8. 1.0 credit at the D-level, with at least 0.5 credit from the following list:

<u>PSYD30H3</u> Current topics in Personality Psychology <u>PSYD31H3</u> Cultural-Clinical Psychology

PSYD32H3 Personality Disorders

PSYD33H3 Current topics in Clinical Psychology

<u>PSYD35H3</u> Clinical Psychopharmacology

PSYD39H3 Cognitive Behaviorial Therapy

#### 9. An additional 1.0 credit in Psychology

#### 10. 2.0 credits from the following courses:

HLTB40H3 Health Policy and Health Systems HLTB41H3 Introduction to the Social Determinants of Mental Health HLTB50H3 Introduction to Health Humanities (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 SOCB50H3 Deviance and Normality I

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist Co-op Program in Mental Health Studies and have completed at least 10.0 credits, including <u>PSYB01H3</u>, <u>PSYB07H3</u>, <u>PSYB32H3</u>, [<u>PSYB55H3</u> or (<u>PSYB65H3</u>)], <u>PSYC02H3</u>, [<u>PSYC08H3</u> or <u>PSYC09H3</u>], and <u>PSYC32H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term
- 2. <u>COPD03H3</u> Preparing to Compete for your Co-op Work Term
- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term

#### 3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term

- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### SPECIALIST PROGRAM IN PSYCHOLOGY (SCIENCE)

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply to the program after completing a minimum of 4.0 credits, including 1.0 credit in psychology. Admission will require either: (1) a final grade of 72% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, or (2) a final grade of 64% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, and a final grade of 72% or higher in <u>PSYB01H3</u> and [<u>PSYB07H3</u> or equivalent].

Application for admission will be made to the Registrar through ACORN, in April/May and July/August.

#### **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. Introduction to Psychology (1.0 credit)

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. Statistical Methods (1.0 credit)

<u>PSYB07H3</u> Data Analysis in Psychology [<u>PSYC08H3</u> Advanced Data Analysis in Psychology or <u>PSYC09H3</u> Applied Multiple Regression in Psychology]

#### 3. Laboratory Methods (1.0 credit)

PSYB01H3Psychological Research Laboratoryand0.5 credit from among the following:PSYC04H3PSYC05H3Human Movement LaboratoryPSYC06H3Psychophysiology LaboratoryPSYC26H3Developmental Psychology LaboratoryPSYC26H3Cognitive Psychology LaboratoryPSYC58H3Cognitive Psychology LaboratoryNROC63H3Neuroscience Laboratory

#### 4. <u>PSYC02H3</u> Scientific Communication in Psychology (0.5 credit)

#### 5. PSYC85H3 History of Psychology (0.5 credit)

#### 6. 5.0 credits at the B-level and C-level

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. 1.0 credit at the D-level

Students must take a 0.5 credit from each of the groupings listed below: *Group One* <u>PSYD11H3</u> Psychology of Interpersonal Relationships <u>PSYD12H3</u> Social Psychology of the Self <u>PSYD13H3</u> Psychology of Emotion Regulation <u>PSYD14H3</u> Psychology of Morality <u>PSYD15H3</u> Current Topics in Social Psychology <u>PSYD16H3</u> Critical Analysis in Social Psychology <u>PSYD18H3</u> Psychology of Gender <u>PSYD20H3</u> Current Topics in Developmental Psychology PSYD22H3 Socialization Processes

Group Two <u>PSYD34H3</u> Human Intelligence <u>PSYD50H3</u> Current Topics in Memory and Cognition <u>PSYD51H3</u> Current Topics in Perception <u>PSYD54H3</u> Current Topics in Visual Recognition <u>PSYD66H3</u> Current Topics in Human Brain and Behaviour

#### 8. 2.5 additional credits in Psychology

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)

Co-op Contact: askcoop@utsc.utoronto.ca

The Specialist (Co-op) Program in Psychology is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Psychology upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits including <u>PSYA01H3</u> and <u>PSYA02H3</u> plus a cumulative GPA of at least 2.75. Grades in both <u>PSYA01H3</u> and <u>PSYA02H3</u> must be 72% or higher.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above. 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 Program in Psychology who have completed 10.0 credits or more, are not eligible to transfer to the Specialist Co-op Program in Mental Health Studies or vice-versa.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment

Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

The program requires students to complete a total 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. Introduction to Psychology (1.0 credit)

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. Statistical Methods (1.0 credit)

<u>PSYB07H3</u> Data Analysis in Psychology [<u>PSYC08H3</u> Advanced Data Analysis in Psychology or <u>PSYC09H3</u> Applied Multiple Regression in Psychology]

#### 3. Laboratory Methods (1.0 credit)

PSYB01H3 Psychological Research Laboratory and 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. <u>PSYC02H3</u> Scientific Communication in Psychology (0.5 credit)

#### 5. PSYC85H3 History of Psychology (0.5 credit)

#### 6. 5.0 credits at the B- and C-level

Students are required to take 3.0 credits at the B- 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. 1.0 credit at the D-level

Students must take 0.5 credit from each of the groupings listed below: *Group One* PSYD11H3 Psychology of Interpersonal Relationships PSYD12H3 Social Psychology of the Self PSYD13H3 Psychology of Emotion Regulation 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

Group Two

PSYD34H3 Human Intelligence

PSYD50H3 Current Topics in Memory and Cognition

PSYD51H3 Current Topics in Perception

PSYD54H3 Current Topics in Visual Recognition

PSYD66H3 Current Topics in Human Brain and Behaviour

#### 8. 2.5 additional credits in Psychology

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.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist Co-op Program in Psychology and have completed at least 10.0 credits, including <u>PSYB01H3</u>, <u>PSYB07H3</u>, <u>PSYC02H3</u> and [<u>PSYC08H3</u> or <u>PSYC09H3</u>].

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

#### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

### MAJOR PROGRAM IN MENTAL HEALTH STUDIES (SCIENCE)

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply to the program after completing a minimum of 4.0 credits, including 1.0 credit in Psychology. Admission will require either: (1) a final grade of 64% or higher in both of <u>PSYA01H3</u> and <u>PSYA02H3</u>, or (2) a final grade of 60% or higher in both of <u>PSYA01H3</u> and <u>PSYA02H3</u>, and a final grade of 72% or higher in two B-level psychology courses.

Application for admission will be made to the Registrar through ACORN, in April/May and July/August.

#### **Program Requirements**

The program requires 7.0 credits, of which at least 2.0 credits must be at the C- or D-level:

#### 1. 1.0 credit as follows:

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. 0.5 credit from the following:

STAB22H3 Statistics I STAB23H3 Introduction to Statistics for the Social Sciences PSYB07H3 Data Analysis in Psychology

#### 3. 1.0 credit as follows:

[ <u>PSYB01H3</u> Psychological Research Laboratory or <u>PSYB04H3</u> Foundations in Psychological Research] <u>PSYC37H3</u> Psychological Assessment

#### 4. 1.0 credit as follows:

<u>PSYB30H3</u> Introduction to Personality <u>PSYB32H3</u> Introduction to Clinical Psychology

5. 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):

Psycho-Social Grouping: <u>PSYB45H3</u> Introduction to Behaviour Modification <u>PSYC18H3</u> The Psychology of Emotion <u>PSYC35H3</u> Advanced Personality Psychology <u>PSYC36H3</u> Psychotherapy <u>PSYC39H3</u> Psychology and the Law

Psycho-Biological Grouping: [PSYB55H3] Introduction to Cognitive Neuroscience or (PSYB65H3) Human Brain and Behaviour] PSYB64H3 Physiological Psychology PSYC31H3 Clinical Neuropsychology PSYC33H3 Neuropsychological Rehabilitation PSYC62H3 Drugs and the Brain

#### 6. 0.5 credit at the D-level

#### 7. 1.5 additional credits in Psychology

## **MAJOR PROGRAM IN PSYCHOLOGY (SCIENCE)**

#### **Enrolment Requirements**

Enrolment in the Program is limited. Students may apply to the program after completing a minimum of 4.0 credits, including 1.0 credit in psychology. Admission will require either: (1) a final grade of 64% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, or (2) a final grade of 60% or higher in both <u>PSYA01H3</u> and <u>PSYA02H3</u>, and a final grade of 72% or higher in two B-level psychology courses.

Application for admission will be made to the Registrar through ACORN, in April/May and July/August.

#### 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. 1.0 credit as follows:

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. 0.5 credit from the following:

<u>PSYB01H3</u> Psychological Research Laboratory <u>PSYB04H3</u> Foundations in Psychological Research

#### 3. 0.5 credit from the following:

<u>STAB22H3</u> Statistics I (*recommended*) <u>STAB23H3</u> Introduction to Statistics for the Social Sciences <u>PSYB07H3</u> Data Analysis in Psychology

#### 4. 2.5 credits at the B-level and C-level

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:

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)

#### 5. 0.5 PSY credit at the D-level

Certain D-level NRO courses may be used to fulfill this requirement with the approval of the Supervisor of Studies.

#### 6. 2.0 additional credits in Psychology, of which 1.0 credit 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. 1.0 credit as follows:

<u>PSYA01H3</u> Introduction to Biological and Cognitive Psychology <u>PSYA02H3</u> Introduction to Clinical, Developmental, Personality and Social Psychology

#### 2. 0.5 credit from the following:

<u>PSYB01H3</u> Psychological Research Laboratory <u>PSYB04H3</u> Foundations in Psychological Research

#### 3. 0.5 credit from the following:

STAB22H3 Statistics I STAB23H3 Introduction to Statistics for the Social Sciences PSYB07H3 Data Analysis in Psychology

#### 4. 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 Program in Psychology can register in no more than 1.0 credit equivalent in Psychology at the C-level.

## **Psychology Courses**

## **PSYA01H3** - Introduction to Biological and Cognitive Psychology

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 Requirements: Natural Sciences

### PSYA02H3 - Introduction to Clinical, Developmental, Personality and Social Psychology

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 Requirements: 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 and PSYA02H3 Exclusion: PSYB04H3 Breadth Requirements: 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 Requirements:** 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 Requirements: Social & Behavioural Sciences

## 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.

**Exclusion:** ANTC35H3, MGEB11H3/(ECMB11H3), MGEB12H3/(ECMB12H3), PSY201H, (SOCB06H3), STAB22H3, STAB52H3, STA220H, STA221H, STA250H, STA257H

Breadth Requirements: 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 Requirements: 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 and PSYA02H3 Exclusion: PSYB21H3, PSY210H Breadth Requirements: 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 and PSYA02H3 Breadth Requirements: Social & Behavioural Sciences

### **PSYB30H3 - Introduction to 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 and PSYA02H3 Exclusion: PSY230H Breadth Requirements: Social & Behavioural Sciences

## PSYB32H3 - Introduction to Clinical Psychology

Clinical psychology examines why people behave, think, and feel in unexpected, sometimes bizarre, and typically self-defeating ways. This course will focus on the ways in which clinicians have been trying to learn the causes of various clinical disorders and what they know about preventing and alleviating it.

Prerequisite: PSYA01H3 and PSYA02H3 Exclusion: PSY240H, PSY340H Breadth Requirements: Social & Behavioural Sciences

## PSYB45H3 - Introduction to Behaviour Modification

An introduction to behaviour modification, focusing on attempts to regulate human behaviour. Basic principles and procedures of behaviour change are examined, including their application across different domains and populations. Topics include operant and respondent conditioning; reinforcement; extinction; punishment; behavioural data; ethics; and using behaviourally-based approaches (e.g., CBT) to treat psychopathology.

Prerequisite: PSYA01H3 and PSYA02H3 Exclusion: PSY260H1 Breadth Requirements: Social & Behavioural Sciences

## **PSYB51H3** - Introduction to Perception

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 and PSYA02H3 Exclusion: NROC64H3, PSY280H1 Breadth Requirements: Natural Sciences

## PSYB55H3 - Introduction to Cognitive Neuroscience

The course explores how the brain gives rise to the mind. It examines the role of neuroimaging tools and braininjured patients in helping to uncover cognitive networks. Select topics include attention, memory, language, motor control, decision-making, emotion, and executive functions.

Prerequisite: PSYA01H3 and PSYA02H3 Exclusion: [( PSYB65H3) if taken in Fall 2017 or Summer 2018], ( PSYC55H3), PSY493H1 Enrolment Limits: 300 Breadth Requirements: Natural Sciences

## PSYB57H3 - Introduction to Cognitive Psychology

A discussion of theories and experiments examining human cognition. This includes the history of the study of human information processing and current thinking about mental computation. Topics covered include perception, attention, thinking, memory, visual imagery, language and problem solving.

Prerequisite: PSYA01H3 and PSYA02H3 Exclusion: PSY270H Breadth Requirements: 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 and PSYA02H3 Exclusion: NROC61H3, PSY290H Breadth Requirements: 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 or PSYB04H3] and [PSYB07H3 or STAB23H3 or STAB22H3] **Enrolment Limits:** Limited to students in the Specialist Programs in Psychology and in Mental Health Studies. **Breadth Requirements:** Natural Sciences

### PSYC03H3 - Computers in Psychological Research: Advanced Topics

The course will provide advanced knowledge and handson 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 or STAB23H3] and PSYB03H3

#### Enrolment Limits: 35

**Breadth Requirements:** 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-resonanceimaging-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: [ PSYB55H3 or (PSYB65)] and [ PSYB01H3 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3]

**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 Requirements:** 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., eyemovements, 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 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] **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 Requirements:** 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 wellversed in appropriate psychophysiological theory and inference.

# **Prerequisite:** [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] 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 Requirements:** 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 Analysisof-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 STAB23H3 or STAB22H3] and [an additional 0.5 credit at the B-level 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 Requirements: 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 or STAB23H3] and an additional 0.5 credit at the B-level in Psychology **Exclusion:** MGEC11H3

Enrolment Limits: 90

**Breadth Requirements:** 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.

## PSYC10H3 - Judgment and Decision Making

This course examines the psychology of judgment and decision making, incorporating perspectives from social psychology, cognitive psychology, and behavioral economics. Understanding these topics will allow students to identify errors and systematic biases in their own decisions, and improve their ability to predict and influence the behavior of others.

Prerequisite: [ PSYB07H3 or STAB22H3 or STAB23H3] and [ PSYB01H3 or PSYB04H3] and [ PSYB10H3 or PSYB57H3 or PSYC57H3]

Enrolment Limits: 100

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given 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.

## 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 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] 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 Requirements:** 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 performance, attributions, and coping.

**Prerequisite:** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and [an additional 0.5 credit at the B-level in PSY courses]

#### 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 Requirements:** 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 or STAB23H3] Exclusion: PSY326H, PSY473H, PSY417H Enrolment Limits: 100

**Breadth Requirements:** 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 STAB22H3 or STAB23H3] and PSYB10H3 and [an additional 0.5 credit at the B-level in PSY courses]

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 Requirements:** Social & Behavioural Sciences

## **PSYC16H3 - Psychology of Imagination**

The course will examine different aspects of imagination in a historical context, including creativity, curiosity, futuremindedness, openness to experience, perseverance, perspective, purpose, and wisdom along with its neural foundations.

Prerequisite: PSYB10H3 and [PSYB20H3 or PSYB30H3 or PSYB51H3 or PSYB55H3 or PSYB57H3] Enrolment Limits: 100

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given 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.

## 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 Requirements:** Social & Behavioural Sciences

## PSYC19H3 - Psychology of Self Control

A detailed examination of how organisms exercise control, bringing thoughts, emotions and behaviours into line with preferred standards. Topics include executive function, the neural bases for self control, individual differences in control, goal setting and goal pursuit, motivation, the interplay of emotion and control, controversies surrounding fatigue and control, and decision-making.

**Prerequisite:** [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3

Enrolment Limits: 100

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given 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 as space permits.

## 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 Requirements: Social & Behavioural Sciences

## PSYC23H3 - Developmental Psychobiology

A review of the interplay of psychosocial and biological processes in the development of stress and emotion regulation. Theory and research on infant attachment, mutual regulation, gender differences in emotionality, neurobiology of the parent-infant relationship, and the impact of socialization and parenting on the development of infant stress and emotion.

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 Requirements:** 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: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] 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 Requirements:** 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 neuro-psychology 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 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and [PSYB55H3 or (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.

Breadth Requirements: Natural Sciences

### 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 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and [ PSYB55H3 or ( PSYB65H3)] Exclusion: PSYC31H3 Enrolment Limits: Enrolment is limited to students in the Specialist (Co-operative) Program in Mental Health Studies.

Breadth Requirements: 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] and PSYB57H3 **Breadth Requirements:** 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 STAB22H3 or STAB23H3] and PSYB30H3 and [an additional 0.5 credit at the B-level in PSY courses]

Exclusion: PSY337H

**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 Requirements:** 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 Requirements: 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 Requirements: 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 Requirements:** Social & Behavioural Sciences

## **PSYC50H3 - Higher-Level Cognition**

This course examines advanced cognitive functions through a cognitive psychology lens. Topics covered include: thinking, reasoning, decision-making, problemsolving, creativity, and consciousness.

Prerequisite: [PSYB55H3 or PSYB57H3 or [(PSYB65) if taken in Fall 2017 or Summer 2018]] and [PSYB07H3 or STAB22H3 or STAB23H3] Enrolment Limits: 100 Breadth Requirements: Natural Sciences Note: Priority will be given 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 as space permits.

## 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 and [ PSYB55H3 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 Requirements: 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 and [PSYB55H3 or PSYB57H3] and [PSYB07H3 or STAB22H3 or STAB23H3] Exclusion: PSY475H Enrolment Limits: 100 Breadth Requirements: 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.

## **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 STAB22H3 or STAB23H3] and [an additional 0.5 credit from the PSYB50-series courses] **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 Requirements:** 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 selfcontrol.

Prerequisite: [PSYB07H3 or STAB22H3 or STAB23H3] and [PSYB55H3 or (PSYB65H3)] Recommended Preparation: PSYB03H3 Enrolment Limits: 100 Breadth Requirements: 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 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] 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 Requirements:** Natural Sciences

## PSYC59H3 - Cognitive Neuroscience of Language

This course provides an overview of the cognitive and neural processes and representations that underlie language abilities. Core topics include first language acquisition, second language acquisition and bilingualism, speech comprehension, and reading. Insights into these different abilities will be provided from research using behavioural, neuroimaging, computational, and neuropsychological techniques.

Prerequisite: [PSYB55H3 or (PSYB65H3)] and [PSYB51H3 or PSYB57H3] and [PSYB07H3 or STAB22H3 or STAB23H3] Enrolment Limits: 100

**Breadth Requirements:** 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 Specialist/Specialist Co-op program in Psycholinguistics and the Minor in Psychology will be admitted as space permits.

## PSYC62H3 - Drugs and the Brain

An examination of behavioural and neurobiological mechanisms underlying the phenomenon of drug dependence. Topics will include principles of behavioural pharmacology and pharmacokinetics, neurobiological mechanisms of drug action, and psychotropic drug classification. In addition, concepts of physical and psychological dependence, tolerance, sensitization, and reinforcement and aversion will also be covered.

**Prerequisite:** [PSYB07H3 or STAB22H3 or STAB23H3] and [at least 0.5 credit from the following: PSYB64H3, PSYB55H3, (PSYB65H3), NROB60H3] and [an additional 0.5 credit at the B-level or C-level in PSY or NRO courses]

Exclusion: PSY396H, PCL475Y

**Enrolment Limits:** 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 will be admitted if space permits. **Breadth Requirements:** Natural Sciences

## PSYC85H3 - 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 and Psycholinguistics.

Prerequisite: Two B-level half-credits in Psychology or permission of the instructor Exclusion: PSY450H, (PSY300H) Recommended Preparation: PSYB07H3 or STAB22H3 or their equivalent Breadth Requirements: History, Philosophy & Cultural Studies

# 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

(<u>www.utsc.utoronto.ca/psych/undergraduates</u>) 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

(<u>www.utsc.utoronto.ca/psych/undergraduates</u>) 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:** COGC92H3, NROC93H3, 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: [ PSYB01H3 or PSYB04H3] and PSYB10H3 and [ PSYC12H3 or PSYC14H3] Exclusion: PSY420H, PSY424H, (PSY324H) Enrolment Limits: 24 Breadth Requirements: 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 "hyphenated 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: [ PSYB01H3 or PSYB04H3] and PSYB10H3 and [ PSYC12H3 or PSYC14H3] Exclusion: PSY326H, PSY420H Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

## PSYD13H3 - The Psychology of Emotion Regulation

This seminar offers an in depth introduction to the recent scientific literature on how humans manage and control their emotions (emotion regulation). We will explore why, and how, people regulate emotions, how emotion regulation differs across individuals and cultures, and the influence that emotion regulation has upon mental, physical, and social well-being.

Prerequisite: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and [PSYC13H3 or PSYC18H3 or PSYC19H3]

Exclusion: PSYD15H3 if taken in Winter 2017 Enrolment Limits: 24 Breadth Requirements: 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: [ PSYB01H3 or PSYB04H3] and PSYB10H3 and [ PSYC12H3 or PSYC13H3 or PSYC14H3] Exclusion: PSYD15H3 if taken in Fall 2015 Recommended Preparation: PSYC08H3 Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

## PSYD15H3 - Current Topics in Social Psychology

An intensive examination of selected issues and research problems in social psychology.

Prerequisite: [ PSYB01H3 or PSYB04H3] and PSYB10H3 and [ PSYC12H3 or PSYC14H3] Exclusion: PSY326H, PSY420H Enrolment Limits: 24 Breadth Requirements: 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: [ PSYB01H3 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3] and [[ PSYB10H3 and 0.5 credit at the C-level in PSY courses] or [ PSYC11H3 or PSYC12H3]] Exclusion: PSY420H Enrolment Limits: 24 Breadth Requirements: 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 and [ PSYB64H3 or PSYB55H3 or ( PSYB65H3)] Exclusion: PSY473H, (PSY373H) Enrolment Limits: 24 Breadth Requirements: 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: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and [1.0 credit at the C-level in PSY courses] Exclusion: PSY323H Enrolment Limits: 24 Breadth Requirements: 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: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB20H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSY410H Enrolment Limits: 24 Breadth Requirements: 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: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB10H3 and PSYB20H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSY311H, PSY410H Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

### **PSYD24H3 - Perceptual and Motor Development**

An in-depth examination of aspects related to perceptual and motor development in infancy and childhood. The topics to be covered will be drawn from basic components of visual and auditory perception, multisensory integration, and motor control, including reaching, posture, and walking. Each week, students will read a set of experimental reports, and will discuss these readings in class. The format of this course is seminar-discussion.

Prerequisite: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and [PSYB20H3 or PSYC21H3 or PLIC24H3] and [0.5 credit at the C-level in PSY courses] Exclusion: PSY410H Enrolment Limits: 24 Breadth Requirements: Natural 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: [ PSYB01H3 or PSYB04H3] and PSYB30H3 and PSYC35H3 Exclusion: PSY430H Enrolment Limits: 24 Breadth Requirements: 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: [ PSYB01H3 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSYD33H3 (if taken in Fall 2013/2014/2015 or Summer 2014/2015) Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

## **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: [ PSYB01H3 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3] and PSYB30H3 and PSYB32H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSY430H Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

## PSYD33H3 - Current Topics in Clinical Psychology

An intensive examination of selected issues and research problems in abnormal psychology. The specific content will vary from year to year.

Prerequisite: [ PSYB07H3 or STAB22H3 or STAB23H3] and PSYB32H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSY440H Recommended Preparation: PSYB01H3 or PSYB04H3 Enrolment Limits: 24 Breadth Requirements: 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 or PSYB04H3] and [ PSYB07H3 or STAB22H3 or STAB23H3] and PSYB57H3 and [0.5 credit at the C-level in PSY courses] Recommended Preparation: PSYC08H3 Enrolment Limits: 24 Breadth Requirements: 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: [ PSYB01H3 or PSYB04H3] and [ PSYB55H3 or ( PSYB65H3)] and PSYC62H3 Enrolment Limits: This course is restricted to students in the Mental Health Studies programs. Breadth Requirements: 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 Requirements: Natural Sciences

## PSYD39H3 - Cognitive Behavioural Therapy

This course provides an in-depth exploration of cognitive behavioural therapies (CBT) for psychological disorders. Topics covered include historical and theoretical foundations of CBT, its empirical evidence base and putative mechanisms of change, and a critical review of contemporary clinical applications and protocols.

Prerequisite: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYC36H3 Enrolment Limits: 24 Breadth Requirements: Social & Behavioural Sciences

## **PSYD50H3** - Current Topics in Memory and Cognition

An intensive examination of selected topics. The specific content will vary from year to year.

Prerequisite: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB57H3 and [0.5 credit at the C-level in PSY courses] Exclusion: PSY470H, PSY471H Enrolment Limits: 24 Breadth Requirements: Natural Sciences

### PSYD51H3 - Current Topics in Perception

This 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: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and PSYB51H3 and [[0.5 credit from the PSYC50-series of courses] or NROC64H3] Exclusion: PSYD54H3 Enrolment Limits: 24 Breadth Requirements: Natural Sciences
# PSYD54H3 - Current Topics in Visual Recognition

The course provides an intensive examination of selected topics in the research of visual recognition. Multiple components of recognition, as related to perception, memory and higher-level cognition, will be considered from an integrative psychological, neuroscientific and computational perspective. Specific topics include face recognition, visual word recognition and general object recognition.

Prerequisite: [PSYB01H3 or PSYB04H3] and [PSYB07H3 or STAB22H3 or STAB23H3] and [PSYB51H3 or PSYB57H3] and [[0.5 credit from the PSYC50-series of courses] or NROC64H3] Exclusion: [PSYD50H3 if taken in Winter 2014, 2015 or 2016], PSYD51H3 Enrolment Limits: 24 Breadth Requirements: Natural Sciences

### **PSYD66H3** - Current Topics in Human Brain and Behaviour

An extensive examination of selected topics in human brain and behaviour. The neural bases of mental functions such as language, learning, memory, emotion, motivation and addiction are examples of the topics that may be included.

Prerequisite: [PSYB07H3 or STAB22H3 or STAB23H3] and [PSYB55H3 or (PSYB65H3)] and [0.5 credit at the C-level in PSY courses] Exclusion: PSY490H Recommended Preparation: [PSYB01H3 or PSYB04H3] Enrolment Limits: 24 Breadth Requirements: 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 cosupervision with a faculty member in Psychology at this campus.

**Prerequisite:** PSYB01H3 and PSYB07H3 and 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

# **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), Associate Professor
- <u>A. Flynn</u>, B.A., (Concordia), M.A., (Simon Fraser), L.L.M. (Berkely), J.D., (Osgoode Hall), Assistant Professor
- <u>M. Hoffmann, B.S. (Michigan Technological University)</u>, 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
- <u>G. Skogstad</u>, 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: Christopher Cochrane Program Advisor: Email: pol-advisor@utsc.utoronto.ca

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **Public Policy Programs**

## MAJOR PROGRAM IN PUBLIC POLICY (ARTS)

The Major Program in Public Policy equips students with the analytical and methodological skills they will need 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 complete a total of 8.0 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

Note: at least 0.5 credit in A-level Political Science are recommended. We also recommend interested students take introductory courses in disciplines 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):

[ <u>MGEA01H3</u>/( <u>ECMA01H3</u>) and <u>MGEA05H3</u>/( <u>ECMA05H3</u>)] or [ <u>MGEA02H3</u>/( <u>ECMA04H3</u>) and <u>MGEA06H3</u>/ ( <u>ECMA06H3</u>)]

### 3. Canadian Politics (1.0 credit)

POLB50Y3 Canadian Government and Politics

**4. Fundamentals of Public Policy (1.0 credit)** <u>PPGC66H3</u> Public Policy Making

PPGC67H3 Public Policy in Canada

### 5. Research Methods (1.0 credit, including at least 0.5 credit in Quantitative Methods)

Quantitative Methods courses include:

<u>ANTC35H3</u> Quantitative Methods in Anthropology <u>MGEB11H3/(ECMB11H3)</u> 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: <u>ANTB19H3</u> Ethnography and the Comparative Study of Human Societies <u>GGRC31H3</u> Qualitative Geographical Methods: Place and Ethnography <u>POLC78H3</u> Political Analysis I

6. Applications of Public Policy (3.0 credits in Public Policy courses,\* from the following list or other courses with the approval of the supervisor of studies; of these, 1.0 credit must be at the C- or D-level in POL courses). CITB04H3 City Politics CITC04H3 Current Municipal and Planning Policy and Practice in Toronto 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 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 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 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 POLC69H3 Political Economy: International and Comparative Perspectives POLC83H3 Applications of American Foreign Policy POLC87H3 International Cooperation and Institutions POLC93H3 Public Policies in the United States POLC98H3 International Political Economy of Finance POLD50H3 Political Interests, Political Identity, and Public Policy POLD52H3 Immigration and Canadian Political Development POLD53H3 Political Disagreement in Canada POLD67H3 The Limits of Rationality POLD87H3 Rational Choice and International Cooperation POLD89H3 Global Environmental Politics POLD90H3 Public Policy and Human Development in the Global South PPGD64H3 Comparative Public Policy SOCB47H3 Social Inequality SOCC37H3 Environment and Society

\* Many of these courses have prerequisites that are not requirements in the Major in Public Policy, 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 Major (Co-op) Program in Public Policy is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors.

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.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms. An optional third work term may be complete with the permission of the Co-op Coordinator.

#### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, plus a cumulative GPA of at least 2.5.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

#### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Public Policy.

### **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Public Policy and have completed at least 10.0 credits, including <u>POLB50Y3</u> (Canadian Government and Politics), and 0.5 credit of Research Methods.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

1. <u>COPD01H3</u> – Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: <u>COPD01H3</u>

- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term
- 4. <u>COPD12H3</u> Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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 as follows:

[<u>CITB01H3</u> Canadian Cities and Planning and <u>CITB04H3</u> City Politics] or [GGRA03 Cities and Environments and GGRB05 Urban Geography] or <u>POLB50Y3</u> Canadian Government and Politics

### 2. Core courses - 1.0 credit as follows:

<u>CITC12H3</u> City Structures and City Choices: Local Government, Management, and Policymaking <u>CITC15H3</u> Taxing and Spending: Public Finance in Canadian Cities 3. Applications of Urban Public Policy and Governance - 2.0 credits from the following: <u>CITC04H3</u> Current Municipal and Planning Policy and Practice in Toronto <u>CITC07H3</u> Urban Social Policy <u>CITC16H3</u> Planning and Governing the Metropolis <u>CITC17H3</u> Civic Engagement in Urban Politics <u>CITD01H3</u> City Issues and Strategies <u>CITD10H3</u> Seminar in Selected Issues in City Studies <u>GGRC33H3</u> Urban Political Geography <u>GGRC33H3</u> The Toronto Region <u>PPGC66H3/(POLC66H3)</u> Public Policy Making <u>PPGC67H3/(POLC67H3)</u> 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 Requirements:** 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 Requirements: 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: PPGC66H3 and [[ POLB50Y3 or equivalent] or [ POLB92H3 and ( POLB93H3)]] and [1.5 credits at the C-level in POL courses] Exclusion: ( POLD64H3) Recommended Preparation: PPGC67H3 Enrolment Limits: 25 Breadth Requirements: Social & Behavioural Sciences

# Religion

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

The Minor in Religion is suspended to new enrolments. Students who are already enrolled in the Program should consult the 2012-13 *Calendar*.

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 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 Requirements:** 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 Requirements:** History, Philosophy & Cultural Studies

# RLGB02H3 - Living Religions: Rituals and Experiences

Critical comparative study of the major Indian religious traditions.

**Breadth Requirements:** 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 Requirements:** 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: RLGA02H3 or (RLGB01H3) or (HUMB03H3) Exclusion: RLG351H, NMC285H, (HUMC17H3) Breadth Requirements: 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) Exclusion: EAS368Y Breadth Requirements: 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 Requirements: 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) Recommended Preparation: RLGC05H3 Breadth Requirements: History, Philosophy & Cultural Studies

# 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 Requirements: History, Philosophy & Cultural Studies

# RLGC13H3 - 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 Requirements:** 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 Requirements:** 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 and permission of the instructor

Exclusion: (HUMC44H3)

**Breadth Requirements:** 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 and permission of the instructor

Exclusion: (HUMC43H3)

**Breadth Requirements:** 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 and 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 and 2 C-level courses in Religion **Enrolment Limits:** 15

## **Society and Environment**

There are no programs in Society and Environment. The course identified below is offered for Society and Environment.

## **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**

- <u>C. Childress</u>, B.A. (Vassar College), M.A., Ph.D. (UC-Santa Barbara), Assistant Professor
- J. Chun, B.A. (Dartmouth), M.A., Ph.D. (Berkeley), Professor
- E.F. Elcioglu, M.A., Ph.D. (UC-Berkeley), Assistant Professor
- E. Fosse, B.A. (Kansas), M.A., Ph.D. (Harvard), Assistant Professor
- A. Grigoryeva. B.A. (National University-Higher School of Economics, Moscow), M.A., Ph.D. Princeton), Assistant 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
- <u>K. Liddle</u>, B.A. (Oberlin College, Ohio), M.A. (Auburn University, Alabama), Ph.D. (Emory University, Atlanta), Assistant Professor
- <u>A. Mullen</u>, 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
- N. Spence, B.A., Ph.D. (Western), Assistant Professor
- 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

Chair: Patricia Landolt Associate Chair: Ping-Chun Hsiung Program Advisor: J. Roopnarinesingh Email: social-sciences-counsellor@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, <u>SOCA03Y3</u> should be taken during the first year, <u>SOCB05H3</u>,

<u>SOCB35H3</u>, <u>SOCB42H3</u> and <u>SOCB43H3</u> should be taken during the second year and <u>SOCC40H3</u> should be taken during the third year. Failure to do so may lead to timetable conflicts and could prolong the completion of the Program.

#### 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 from the Department 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: <u>SOCC03H3</u>, <u>SOCC11H3</u>, <u>SOCC23H3</u>, <u>SOCC24H3</u>, <u>SOCC30H3</u>, <u>SOCC31H3</u>, <u>SOCC34H3</u>, <u>SOCC47H3</u> and <u>SOCC58H3</u>.

#### 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 <u>SOCB05H3</u> and <u>SOCB35H3</u>. In the third year, two C-level research practicums - <u>SOCC23H3</u> and <u>SOCC31H3</u> - 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 <u>SOCD21H3</u>, <u>SOCD50H3</u> and <u>SOCD51H3</u>.

#### 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.

#### Sociology Areas of Concentration Table:

Culture and Cities	Criminology and Sociology of Law	Gender and Family	Migration and Ethnicity	Economy, Politics and Society
SOCB44H3 Sociology of Cities and Urban Life SOCB58H3 Sociology of Culture SOCC26H3 Sociology of Urban Cultural Policies SOCC27H3 Sociology of Suburbs and Suburbanization SOCC44H3 Media and Society SOCC54H3 Special Topics in Sociology of Culture SOCD01H3 Advanced Seminar in Culture and Cities SOCD51H3 Capstone Seminar in Culture, Creativity, and Cities	SOCB50H3 Deviance and Normality I SOCB59H3 Sociology of Law SOCC03H3 Collective Behaviour SOCC11H3 Policing and Security SOCC30H3 Criminal Behaviour SOCC45H3 Youth and Society SOCC46H3 Special Topics in Sociology of Law SOCD05H3 Advanced Seminar in Criminology and Sociology of Law	SOCB22H3 Sociology of Gender SOCB49H3 Sociology of Family SOCC09H3 Sociology of Gender and Work SOCC24H3 Special Topics in Gender and Family SOCC29H3 Family and Gender in the Middle East SOCC38H3 Gender and Education SOCD10H3 Advanced Seminar in Gender and Family SOCD20H3 Senior Seminar: Social Change and Gender Relations in Chinese Societies	SOCB53H3 Race and Ethnicity SOCB60H3 Issues in Critical Migration Studies SOCC25H3 Ethnicity, Race and Migration SOCC34H3 Migrations and Transnationalisms SOCC52H3 International Migration and Immigrant Incorporation SOCC55H3 Special Topics in Race and Ethnicity SOCD15H3 Advanced Seminar in Critical Migration Studies SOCD21H3 Immigrant Scarborough	SOCB30H3 Political Sociology SOCB54H3 Sociology of Work SOCC04H3 Social Movements SOCC15H3 Work, Employment and Society SOCC58H3 Global Transformations: Politics, Economy and Society SOCC59H3 Special Topics in Social Inequality SOCD25H3 Advanced Seminar in Economy, Politics and Society

### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **Sociology Programs**

## SPECIALIST PROGRAM IN SOCIOLOGY (ARTS)

#### **Enrolment Requirements**

Enrolment in the Specialist program is limited. Students will normally apply to enter the program after completing 4.0 or 5.0 credits including <u>SOCA03Y3</u>. 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 will require a final grade of 70% or higher in <u>SOCA03Y3</u> (or a CGPA of 70% or higher in <u>SOCA01H3</u> and <u>SOCA02H3</u>). For students applying after completing 8.0 to 10.0 credits, admission will be on the basis of SOC courses completed, or on overall CGPA for those students who have not completed any SOC courses. Specialist students will be entitled to priority access to <u>SOCB42H3</u>, <u>SOCCB43H3</u>, <u>SOCC23H3</u> and <u>SOCC31H3</u>, for fall-winter sessions, during the summer early registration period.

#### **Program Requirements**

The Program requires completion of 12.0 credits as described below. No more than 14.0 credits in Sociology may be included in a four-year degree.

#### 1. 1.0 credit as follows:

[(<u>SOCA01H3</u>) Introduction to Sociology I and (<u>SOCA02H3</u>) Introduction to Sociology II] or <u>SOCA03Y3</u> Introduction to Sociology

- 2. SOCB05H3 Logic of Social Inquiry
- 3. SOCB35H3 Numeracy and Society
- 4. SOCB42H3 Classical Sociological Theory I
- 5. SOCB43H3 Classical Sociological Theory II
- 6. 3.0 credits at the B-level in Sociology
- 7. SOCC40H3 Contemporary Sociological Theory
- 8. SOCC23H3 Practicum in Qualitative Research Methods
- or

SOCC31H3 Practicum in Quantitative Research Methods

9. 0.5 SOC credit at the C-level that has been designated as an Applied Writing Skills course

**10. 4.5 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)**

#### **Enrolment Requirements**

Enrolment in the Major program is limited. Students will normally apply to enter the program after completing 4.0 or 5.0 credits including <u>SOCA03Y3</u>. 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 ACORN. Admission will require a final grade of 65% or higher in <u>SOCA03Y3</u> (or a CGPA of 65% or higher in <u>SOCA01H3</u> and <u>SOCA02H3</u>). For students applying after completing 8.0 to 10.0 credits, admission will be on the basis of SOC courses completed, or on overall CGPA for those students who have not completed any SOC courses. Specialist students will be entitled to priority access to <u>SOCB42H3</u> and <u>SOCB43H3</u> for fall-winter sessions, during the summer early registration period.

### **Program Requirements**

The Program requires completion of 7.0 credits in Sociology including:

### 1. 1.0 credit as follows:

[( <u>SOCA01H3</u>) Introduction to Sociology I and ( <u>SOCA02H3</u>) Introduction to Sociology II] or <u>SOCA03Y3</u> Introduction to Sociology

- 2. SOCB05H3 Logic of Social Inquiry
- 3. SOCB35H3 Numeracy and Society
- 4. SOCB42H3 Classical Sociological Theory I
- 5. SOCB43H3 Classical Sociological Theory II
- 6. 0.5 credit in SOC courses at the C-level 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 CRITICAL MIGRATION STUDIES (ARTS)

Program Advisor: Janet Roopnarinesingh janetr@utsc.utoronto.ca

The Minor program in Critical Migration Studies 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 Restrictions**

Students in the Minor in Critical Migration Studies may count only 1.0 credit in Sociology courses, from the following list, towards completion of the program: [[( SOCA01H3) and ( SOCA02H3)] or SOCA03Y3], SOCB05H3.

### **Program Requirements**

The program requires the completion of 4.0 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 [( <u>SOCA01H3</u>) Introduction to Sociology I and ( <u>SOCA02H3</u>) Introduction to Sociology II] or <u>SOCA03Y3</u> Introduction to Sociology]

### 2. SOCB60H3 Issues in Critical Migration Studies

### 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 <u>HISB03H3</u> Critical Writing and Research for Historians <u>HLTB15H3</u> Introduction to Health Research Methodology <u>SOCB05H3</u> Logic of Social Inquiry

### 4. 0.5 credit from the following:

<u>SOCB53H3</u> Race and Ethnicity <u>GGRA35H3</u> The Great Scarborough Mashup: People, Place, Community, Experience <u>ANTB16H3</u> Canadian Cultural Identities <u>GASB53H3</u> 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 SOCC25H3 Ethnicity, Race and Migration SOCC34H3 Migrations and Transnationalisms SOCC52H3 International Migration and Immigrant Incorporation SOCC55H3 Special Topics in Race and Ethnicity

### 6. 0.5 credit from the following:

<u>SOCD15H3</u> Advanced Seminar in Critical Migration Studies <u>SOCD21H3</u> Immigrant Scarborough

## MINOR PROGRAM IN CULTURE, CREATIVITY, AND CITIES (ARTS)

Program Advisor: Janet Roopnarinesingh janetr@utsc.utoronto.ca

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 Requirements**

The 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 <u>GGRA02H3</u> The Geography of Global Processes <u>MDSA01H3</u> Introduction to Media Studies <u>MGTA01H3</u> Introduction to Business\_ <u>MGTA02H3</u> Managing the Business Organization [(<u>SOCA01H3</u>) Introduction to Sociology I or (<u>SOCA02H3</u>) Introduction to Sociology II] or <u>SOCA03Y3</u> Introduction to Sociology <u>VPAA10H3</u> Introduction to Arts Management

### 2. SOCB58H3 Sociology of Culture

#### 3. 1.0 credit from the following:

<u>CITB02H3</u> Foundations of City Studies <u>ENGB37H3</u> Popular Literature and Mass Culture <u>GGRB05H3</u> Urban Geography <u>GGRB55H3</u> Cultural Geography <u>MDSB03H3</u> Advertising and Consumer Culture <u>SOCB44H3</u> Sociology of Cities and Urban Life <u>VPAB05H3</u> Introduction to Contemporary Cultural Theory

### 4. SOCC26H3 Sociology of Urban Cultural Policies

#### 5. 1.0 credit from the following:

ENGC59H3 Geography and Regionalism in Literature ENGC83H3 World Cinema GGRC13H3 Urban Political Geography SOCC27H3 Sociology of Suburbs and Suburbanization SOCC44H3 Media and Society VPAC15H3 Cultural Policy

#### 6. 0.5 credit from the following:

<u>SOCD01H3</u> Advanced Seminar in Culture and Cities <u>SOCD51H3</u> Capstone Seminar in Culture, Creativity, and Cities <u>SOCD52H3</u> Sociology of Books

## MINOR PROGRAM IN SOCIOLOGY (ARTS)

Admission to the Minor Program in Sociology is unlimited. 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 credits in Sociology as follows:

### 1. 1.0 credit as follows:

[(<u>SOCA01H3</u>) Introduction to Sociology I and (<u>SOCA02H3</u>) Introduction to Sociology II] or <u>SOCA03Y3</u> Introduction to Sociology

### 2. SOCB05H3 Logic of Social Inquiry

### 3. 1.0 credit from the following:

<u>SOCB30H3</u> Political Sociology <u>SOCB42H3</u> Classical Sociological Theory I <u>SOCB43H3</u> Classical Sociological Theory II <u>SOCB47H3</u> Social Inequality 4. 0.5 additional credit at the B-level in Sociology

5. 1.0 additional credit at the C-level in Sociology

### **Sociology Courses**

## SOCA03Y3 - Introduction to Sociology

This foundational skills course, which is taught over two full terms, provides a comprehensive introduction to the discipline of sociology beginning with how sociologists use theory and research methods to understand the social world. Topics covered will include culture, inequality, gender, sexualities, race and ethnicity, families, education, religion, crime, law, health, political economy, mass media, social change, and globalization.

Exclusion: SOC101Y, (SOCA01H3), (SOCA02H3) Breadth Requirements: 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)] or SOCA03Y3] and enrolment in a Sociology program] or [any 4.0 credits and enrolment in the Minor Critical Migration Studies] Exclusion: SOC200H, SOC200Y, ( SOCB40H3), ( SOCB41H3) Enrolment Limits: 170 Breadth Requirements: 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 SOCA03Y3] or [ WSTA01H3 and WSTA03H3] **Breadth Requirements:** Social & Behavioural Sciences

## 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)] or SOCA03Y3 Enrolment Limits: 170 Breadth Requirements: 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)] or SOCA03Y3 Exclusion: SOC260H Enrolment Limits: 170 Breadth Requirements: Social & Behavioural Sciences

## SOCB35H3 - Numeracy and Society

This course introduces students to various techniques by which numeracy may contribute to understanding society.

Prerequisite: SOCA03Y3 or [( SOCA01H3 and SOCA02H3)] Corequisite: N/A Exclusion: MGEB11H3, ( ECMB11H3), PSY220H1, ( SOCB06H3), STAB22H3, STAB23H3, STAB52H3, STA220H, STA221H, STA250H, and STA257H Enrolment Limits: 150 Breadth Requirements: Quantitative Reasoning

## SOCB37H3 - Economy, Culture, and Society

This course offers a sociological account of economic phenomena. The central focus is to examine how economic activites are shaped, facilitated, or even impeded by cultural values and social relations, and show that economic life cannot be fully understood outside of its social context. The course will focus on economic activities of production, consumption, and exchange in a wide range of settings including labor and financial markets, corporations, household and intimate economies, informal and illegal economies, and markets of human goods.

Prerequisite: SOCA03Y3 or [( SOCA01H3) and ( SOCA02H3)] Exclusion: SOC306H1 Enrolment Limits: 170 Breadth Requirements: 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)] or SOCA03Y3] and enrolment in a Sociology program Exclusion: SOC203Y Enrolment Limits: 170 Breadth Requirements: 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)] or SOCA03Y3] and SOCB42H3 and enrolment in a Sociology program Exclusion: SOC203Y Enrolment Limits: 170 Breadth Requirements: 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 SOCA03Y3] 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 Requirements: 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 SOCA03Y3] or [any 4.0 credits and enrolment in the Major/Major Co-op in Public Policy] Exclusion: SOC301Y Enrolment Limits: 170 Breadth Requirements: 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 SOCA03Y3] or [WSTA01H3 and WSTA03H3] Exclusion: SOC214Y Enrolment Limits: 170 Breadth Requirements: 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)] or SOCA03Y3 Exclusion: SOC212Y Enrolment Limits: 170 Breadth Requirements: 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 SOCA03Y3] or [any 4.0 credits and enrolment in the Minor in Critical Migration Studies] Exclusion: SOC210Y Enrolment Limits: 170 Breadth Requirements: 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)] or SOCA03Y3 Exclusion: SOC207Y, SOC317Y, SOC370Y Enrolment Limits: 170 Breadth Requirements: Social & Behavioural Sciences

## SOCB58H3 - 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 SOCA03Y3] or [any 4.0 credits and enrolment in the Minor in Culture, Creativity, and Cities] Exclusion: ( SOCC18H3), SOC360Y Enrolment Limits: 170 Breadth Requirements: History, Philosophy & Cultural Studies

### SOCB59H3 - Sociology of Law

This course examines the character, authority, and processes of law in contemporary liberal democracies.

Prerequisite: [( SOCA01H3) and ( SOCA02H3)] or SOCA03Y3 Enrolment Limits: 170 Breadth Requirements: Social & Behavioural Sciences

## SOCB60H3 - Issues in Critical Migration Studies

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) and (SOCA02H3)] or SOCA03Y3], ANTA02H3, GGRA02H3, GASA01H3/ HISA06H3, GASA02H3, HISA04H3, HISA05H3 Breadth Requirements: Social & Behavioural Sciences Note: Priority will be given to students enrolled in the Minor in Critical Migration Studies. Additional students will be admitted as space permits.

## SOCB70H3 - Social Change

This course provides an introductory overview of the nature and causes of social change in contemporary societies. Topics covered include: changes in political ideology, cultural values, ethnic and sexual identities, religious affiliation, family formation, health, crime, social structure, and economic inequality.

Prerequisite: SOCA03Y3 or [( SOCA01H3) and ( SOCA02H3)] Enrolment Limits: 150 Breadth Requirements: Social & Behavioural Sciences

## 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:** SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] **Enrolment Limits:** 60 **Breadth Requirements:** 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:** [SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

**Recommended Preparation:** SOCB22H3 or SOCB49H3 **Enrolment Limits:** 60

Breadth Requirements: 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:** [[ SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [8.0 credits, including WSTB05H3 and enrolment in the Major in Women's and Gender Studies] **Exclusion:** SOC366H

**Recommended Preparation:** SOCB22H3 or SOCB49H3 **Enrolment Limits:** 60

Breadth Requirements: 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: SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] Exclusion: SOC213Y, SOC306Y Enrolment Limits: 60 Breadth Requirements: 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:** [SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB47H3]

**Recommended Preparation:** SOCB54H3 **Enrolment Limits:** 60

Breadth Requirements: Social & Behavioural Sciences

## 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) or SOCA03Y3] and SOCB05H3] and a cumulative GPA of at least 2.3 Exclusion: SOC302H, ( SOCD23H3) Enrolment Limits: 15 Breadth Requirements: Social & Behavioural Sciences

# SOCC24H3 - Special Topics in Gender and Family

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.

This course has been designated an Applied Writing Skills Course.

**Prerequisite:** SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] **Recommended Preparation:** SOCB22H3 or SOCB49H3 **Enrolment Limits:** 60

Breadth Requirements: Social & Behavioural Sciences

## 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [ SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Critical Migration Studies]

**Recommended Preparation:** SOCB22H3 or SOCB49H3 **Enrolment Limits:** 60

Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] 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:** SOC386Y **Recommended Preparation:** SOCB44H3

Enrolment Limits: 60

Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] 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 Requirements: Social & Behavioural Sciences

## SOCC29H3 - Family and Gender in the Middle East

In this course, students read and evaluate recent research related to the sociology of families and gender in the modern Middle East. The course explores the diversity of family forms and processes across time and space in this region, where kinship structures have in the past been characterized as static and uniformly patriarchal. Topics covered include marriage, the life course, family nucleation, the work-family nexus, divorce, family violence, and masculinities.

**Prerequisite:** [[ SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [8.0 credits, including WSTB05H3 and enrolment in the Major in Women's and Gender Studies] Enrolment Limits: 60 Breadth Requirements: 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 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] **Enrolment Limits:** 60

Breadth Requirements: 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)] or SOCA03Y3] and SOCB05H3 and [ SOCB35H3 or ( SOCB06H3)]] and a cumulative GPA of at least 2.3 Exclusion: SOC300H, ( SOCD31H3) Enrolment Limits: 15

Breadth Requirements: Quantitative Reasoning

# SOCC34H3 - Migrations & Transnationalisms

Course.

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

**Prerequisite:** [SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, IDSB01H3]] or [SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Critical Migration Studies] Enrolment Limits: 60 Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [any 8.0 credits and enrolment in the Major/Major Co-op in Public Policy] Exclusion: SOC385H Enrolment Limits: 60 Breadth Requirements: Social & Behavioural Sciences

## 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [8.0 credits, including WSTB05H3 and enrolment in the Major in Women's and Gender Studies] Enrolment Limits: 60 Breadth Requirements: 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 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] Exclusion: (SOCC05Y3) Enrolment Limits: 60 Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [ SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] Exclusion: ( SOCB56H3), ( SOCB57H3) Enrolment Limits: 60 Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] **Enrolment Limits:** 60 **Breadth Requirements:** Social & Behavioural Sciences

# 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

Enrolment Limits: 60

Breadth Requirements: Social & Behavioural Sciences

## **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 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

**Breadth Requirements:** 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.

## SOCC49H3 - Indigenous Health

This course will examine the healh and well-being of Indigenous peoples, given historic and contemporary issues. A critical examination of the social determinants of health, including the cultural, socioeconomic and political landscape, as well as the legacy of colonialism, will be emphasized. An overview of methodologies and ethical issues working with Indigenous communities in health research and developing programs and policies will be provided. The focus will be on the Canadian context, but students will be exposed to the issues of Indigenous peoples worldwide.

Same as HLTC49H3

Prerequisite: HLTB41H3 or [[ SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: HLTC49H3 Enrolment Limits: 30 Breadth Requirements: Social & Behavioural Sciences

## SOCC51H3 - Special Topics in Health and Society

An examination of a current topic relevant to the study of health and society. The specific topic will vary from year to year.

Prerequisite: HLTB41H3 or [[ SOCB05H3 or SOCB35H3] and [0.5 from SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: HLTC51H3 Enrolment Limits: 30

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Specialist and Major programs in Sociology.

# 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, refugeeship, citizenship and noncitizenship, economic incorporation, children of immigrants, and social exclusion.

Prerequisite: [[ SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [ SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Critical Migration Studies] Exclusion: ( SOCB52H3) and SOC210Y Enrolment Limits: 60 Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

Enrolment Limits: 60

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Please see the Sociology Department website at <u>http://www.utsc.utoronto.ca/~socsci/</u> 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [ SOCB60H3 and an additional 8.0 credits and enrolment in the Minor in Critical Migration Studies]

### **Enrolment Limits: 60**

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Please see the Sociology Department website at <u>http://www.utsc.utoronto.ca/~socsci/</u> for a listing of the course topics for current and upcoming semesters.

## 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 and [1.0 credit from the following: SOCB42H3, SOCB43H3, SOCB47H3] Exclusion: SOC236H Enrolment Limits: 60 Breadth Requirements: 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 SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

#### Enrolment Limits: 60

**Breadth Requirements:** Social & Behavioural Sciences **Note:** See the Sociology Department website for a listing of the course topics for current and upcoming semesters.

# SOCC61H3 - The Sociology of the Truth and Reconciliation Commission

The Truth and Reconciliation Commission of Canada is an historic process that now directs a core area of Canadian politics and governance. This course examines the institutional and legal history, precedents, contradictions and consequences of the commission from a sociological perspective.

**Prerequisite:** [SOCB05H3 or SOCB35H3] and [0.5 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3] **Enrolment Limits:** 60 **Breadth Requirements:** Social & Behavioural Sciences

# 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:** [10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB44H3, SOCB47H3, SOCB58H3]] or [10.0 credits including SOCB58H3 and enrolment in the Minor in Culture, Creativity, and Cities] **Enrolment Limits:** 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Specialist and Major programs in Sociology, and the Minor in Culture, Creativity, and Cities.

## 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:** 10.0 credits and SOCB05H3 and [1.0 credit from the following: [SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, SOCB50H3, (SOCB51H3)] **Enrolment Limits:** 20

**Breadth Requirements:** 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:** [[10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]] or [8.0 credits, including WSTB05H3 and enrolment in the Major in Women's and Gender Studies]

### Enrolment Limits: 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Specialist and Major programs in Sociology, and Major in Women's and Gender Studies. Additional students will be admitted as space permits.

# SOCD11H3 - Program and Policy Evaluation

This course provides an introduction to the field of program and policy evaluation. Evaluation plays an important role in evidence based decision making in all aspects of society. Students will gain insight into the theoretical, methodological, practical, and ethical aspects of evaluation across different settings. The relative strenghts and weaknesses of various designs used in applied social research to examine programs and policies will be covered.

Same as HLTD11H3

Prerequisite: [HLTB15H3 and [STAB22H3 or STAB23H3]] or [10.0 credits and [SOCB05H3 and SOCB35H3] and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] Exclusion: HLTD11H3 Enrolment Limits: 10 Breadth Requirements: Social & Behavioural Sciences

# SOCD15H3 - Advanced Seminar in Critical Migration Studies

This course offers an in-depth examination of selected topics in Migration Studies. Students will be required to conduct independent research based on primary and/or secondary data sources. Check the department website for details at: <u>www.utsc.utoronto.ca/sociology/programs</u>.

**Prerequisite:** [10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]] or [ SOCB60H3 and enrolment in the Minor in Critical Migration Studies] **Enrolment Limits:** 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given first to students enrolled in the Minor in Critical Migration Studies, 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 GASD20H3

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: GASD20H3 Recommended Preparation: GASB20H3 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 handson research to theoretical debates about migration, transnationalism and multicultural communities. Check the department website for details at: www.utsc.utoronto.ca/sociology/programs.

**Prerequisite:** [10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3, (SOCC39H3)]] or [SOCB60H3 and enrolment in the Minor in Critical Migration Studies] **Enrolment Limits:** 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** For a listing of the course topics for current and upcoming semesters check the Department's website at <a href="http://www.utsc.utoronto.ca/sociology/">http://www.utsc.utoronto.ca/sociology/</a>

# 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: <a href="http://www.utsc.utoronto.ca/sociology/programs">www.utsc.utoronto.ca/sociology/programs</a>.

**Prerequisite:** 10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

Enrolment Limits: 20

**Breadth Requirements:** 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:** 15.0 credits, including: [SOCA03Y3 or (SOCA01H3) and (SOCA02H3)] and [SOCB35H3 or (SOCB06H3)] and [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3; and permission of the instructor and the Sociology Supervisor of Studies

Exclusion: SOC390Y, SOC391H, SOC392H

# 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:** 15.0 credits, including [SOCA03Y3 or [(SOCA01H3) and (SOCA02H3)]] and [SOCB35H3 or (SOCB06H3)] and [[SOCB05H3 or [(SOCB40H3) and (SOCB41H3)]] and SOCB42H3 and SOCB43H3; and permission of the instructor and the Sociology Supervisor of Studies.

Exclusion: SOC390Y, SOC391H, SOC392H

# 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:** 10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

**Note:** For a listing of the course topics for current and upcoming semesters check the Department's website at <u>http://www.utsc.utoronto.ca/sociology/</u>

### 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:** 10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

**Note:** For a listing of the course topics for current and upcoming semesters check the Department's website at <u>http://www.utsc.utoronto.ca/sociology/</u>

### 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-bystep 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 [ SOCA03Y3 or [( SOCA01H3) and ( SOCA02H3)]] and SOCB05H3 and [ SOCB35H3 or ( SOCB06H3)] and [ SOCC23H3 or SOCC31H3] and a cumulative GPA of at least 2.7 **Enrolment Limits:** 15 **Breadth Requirements:** 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:** 10.0 credits and SOCB05H3 and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB44H3, SOCB47H3, SOCB58H3] **Enrolment Limits:** 20

**Breadth Requirements:** 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.

## SOCD52H3 - Sociology of Books

A sociological examination of the creation, production, dissemination, and reception of books.

**Prerequisite:** 10.0 credits including SOCB05H3, and [1.0 credit from the following: SOCB30H3, SOCB42H3, SOCB43H3, SOCB43H3, SOCB47H3, SOCB44H3, SOCB58H3] or [10.0 credits including SOCB58H3 and enrolment in the Minor in Culture, Creativity and Cities]

Exclusion: [SOCD44H3 if taken in 2014-2015 or 2015-2016 or 2016-2017]

### Enrolment Limits: 20

**Breadth Requirements:** 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.

## SOCD55H3 - Field School in Critical Migration Studies

This intensive international field school course examines themes at the intersection of migration, labour and politics and offers students an opportunity to develop their qualitative research skills through immersion in a natural setting. The course will provide students hands-on experience linking theories and knowledge learned in the classroom to direct observations about the social world.

**Prerequisite:** 10.0 credits, including SOCB05H3 and 1.0 credit from the following: [SOCB30H3, SOCB42H3, SOCB43H3, SOCB47H3]

#### Enrolment Limits: 20

**Breadth Requirements:** Social & Behavioural Sciences **Note:** Priority will be given to students enrolled in the Major or Specialist programs in Sociology and the Minor program in Critical Migration Studies. Additional students will be admitted as space permits.

## **Statistics**

#### **Faculty List**

- <u>K. Butler</u>, B.Sc. (Birmingham), M.Sc., Ph.D. (Simon Fraser), Lecturer
- <u>S. Damouras</u>, 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
- <u>C. Hasler</u>, B.Sc., M.Sc., Ph.D. (Neuchâtel), Assistant Professor, Teaching Stream
- S. Kang, B.Sc., M.Sc. (Chonnam National University, South Korea), M.Sc., Ph.D. (Toronto), Assistant Professor, Teaching Stream
- <u>D. Roy</u>, B.Sc., M.Eng., Ph.D. (MIT), Assistant Professor
- M. Samarakoon, B.Sc. (Colombo), M.Sc. (Alberta), Ph.D. (Toronto), Associate Professor, Teaching Stream
- Q. Sun, B.Sc. (Science & Technology, China), Ph.D. (North Carolina), Assistant Professor
- 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: M. Evans evans@utsc.utoronto.ca (416-287-7274)

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.

<u>STAB22H3</u> and <u>STAB27H3</u> serve as a non-technical introduction to statistics. These courses are designed for students from disciplines where statistical methods are applied. <u>STAB52H3</u> is a mathematical treatment of probability. <u>STAB57H3</u> 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.

#### **Admission to Statistics Programs**

Beginning in 2018-19 there are admissions criteria for the Statistics Major Programs (Non Co-op and Co-op). Details and information on how to apply for admission to these programs is found in the program descriptions below.

#### **Combining Statistics and Economics Programs**

Students who wish to combine studies in statistics and economics should consult the <u>Economics for Management Studies</u> section of this *Calendar* for information on the economics programs and restrictions on the order in which courses must be taken.

#### Double Degrees: BBA/BSc

The Department of Computer and Mathematical Sciences, in partnership with the Department of Management, offers the following Double Degree programs:

- Double Degree: BBA, Specialist program in Management and Finance/Honours BSc, Specialist program in Statistics, Quantitative Finance Stream
- Double Degree: BBA, Specialist (Co-operative) program in Management and Finance/Honours BSc, Specialist (Co-operative) program in Statistics, Quantitative Finance Stream

The Double Degree programs create an accelerated pathway for students who would otherwise have to complete two separate Specialist programs. They explicitly focus on finance and quantitative methods, providing students with a thorough education in both the business and the quantitative aspects of the financial industry. The Double Degree Programs take advantage of existing synergies to allow students to complete both undergraduate programs and degrees within five years without compromising their learning experience. Students will complete a total of 25.0 credits and, for those enrolled in the Double Degree (Specialist Co-op programs), students must also complete three mandatory Co-op work terms. For more information, include Admission and Program requirements, see the <u>Double Degrees section</u> of this *Calendar*.

#### Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the "Teaching and Learning" section of the *Calendar*.

### **Statistics Programs**

### DOUBLE DEGREE: BBA, SPECIALIST PROGRAM IN MANAGEMENT AND FINANCE / HONOURS BSc, SPECIALIST PROGRAM IN STATISTICS, QUANTITATIVE FINANCE STREAM

Academic Supervisors:

S. Ahmed Email: mgmtss@utsc.utoronto.ca (BBA)

S. Damouras Email: <a href="mailto:sdamouras@utsc.utoronto.ca">sdamouras@utsc.utoronto.ca</a> (BSc)

This Double Degree program combines the Specialist Program in Management and Finance and the Specialist Program in Statistics, Quantitative Finance stream. Students completing the Double Degree program will qualify to graduate with two degree designations – the Bachelor of Business Administration (BBA) and the Honours Bachelor of Science (BSc), assuming all other degree criteria are met.

#### **Enrolment Requirements**

Enrolment in this Double Degree program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English, Grade 12 Advanced Functions, and Grade 12 Calculus & Vectors. Applicants must also submit a Supplementary Application Form.

Course Guidelines for Students Admitted to the Double Degree Program Directly from High School Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>, MATA36H3, MGAB01H3, MGAB02H3, MGMA01H3 and MGTA35H3.

2. Students already pursuing a BBA program and degree may apply to enter the Double Degree program. The application can be made before the end of the Winter semester and/or before the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request. Students considering switching to the Double Degree program should consult with the program supervisors as soon as possible.

The minimum Cumulative Grade Point Average (CGPA) for admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed at least 4.5 credits (none of which can be designated as CR/NCR), including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGTA35H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>, and <u>MATA36H3</u>. Students who have taken the sequence [<u>MATA32H3</u> and <u>MATA33H3</u>] instead of [<u>MATA30H3</u> and <u>MATA36H3</u>] can still apply to the Double Degree program if they are taking or plan to take <u>MATA36H3</u> at the time of application and could receive admission conditional on their grade in <u>MATA36H3</u> being above a threshold to be specified each year. Note that MATA36H3 will be treated as an Extra (EXT) course in this case.

Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be admitted to the Double Degree program. For those who apply with more than 4.5 credits, their CGPA at the time of application will be calculated with more weight assigned to the required courses listed under the 4.5 credits.

#### CGPA Requirement to Remain in the Double Degree (Specialist Programs)

In order to remain in the Double Degree, students must maintain a CGPA of 2.0 or higher after having attempted at least 4.0 credits. Students whose CGPA falls below 2.1 (but not below 2.0) will have the opportunity to move to either the non Co-op BBA Specialist Program in Management and Finance, or the non Co-op BSc Specialist Program in Statistics, Quantitative Finance stream. If they choose to stay in the Double Degree program and their CGPA falls below 2.0, they will be removed from the Double Degree 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.

#### **Program Requirements**

The Double Degree program requires the completion of 25.0 credits. 22.0 credits are core program requirements as listed below, and 3.0 further credits are required to complete degree requirements.

#### 1. Communications requirement (0.5 credit)

MGTA35H3 Management Communications

#### 2. Management requirements (5.5 credits)

MGAB01H3 Introductory Financial Accounting I MGAB02H3 Introductory Financial Accounting II MGAB03H3 Introductory Management Accounting [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3 Human Resource Management MGHC02H3 Management Skills MGMA01H3 Principles of Marketing MGMB01H3 Marketing Management MGOC10H3 Analysis for Decision-Making MGOC20H3 Operations Management: A Mathematical Approach MGTA05H3 Foundations of Business Management or [(MGTA01H3) and (MGTA02H3)]

#### 3. Science requirements (9.0 credits)

CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics MATA22H3 Linear Algebra I for Mathematical Sciences MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences 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 MATB61H3 Linear Programming and Optimization MATC46H3 Differential Equations II STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics STAC62H3 Stochastic Processes STAC67H3 Regression Analysis STAD37H3 Multivariate Analysis STAD57H3 Time Series Analysis

#### 4. Economics requirements (2.0 credits)

<u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u> Price Theory: A Mathematical Approach MGEB06H3 Macroeconomic Theory and Policy: A Mathematical Approach

#### 5. Finance requirements (5.0 credits)

MGFB10H3 Principles of Finance MGFC10H3 Intermediate Finance [MGFC30H3 Introduction to Derivatives Markets or <u>STAB41H3</u> Financial Derivatives] <u>MGFD10H3</u> Investments <u>STAC70H3</u> Statistics and Finance I <u>STAD70H3</u> Statistics and Finance II

#### 6. At least four courses (2.0 credits) from:

MGEC71H3Money and BankingMGFC20H3Personal Financial ManagementMGFC50H3International Financial ManagementMGFC60H3Financial Statement Analysis & Security ValuationMGFD15H3Special Topics in Finance: Private EquityMGFD30H3Risk ManagementMGFD40H3Investor Psychology and Behavioural FinanceMGFD50H3Mergers and Acquisitions: Theory and PracticeMGFD60H3Financial Modeling and Trading StrategiesMGFD70H3Advanced Financial Management

**NOTE**: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree</u> <u>Requirements</u>) of the Calendar.

### DOUBLE DEGREE: BBA, SPECIALIST (CO-OPERATIVE) PROGRAM IN MANAGEMENT AND FINANCE / HONOURS BSc, SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS, QUANTITATIVE FINANCE STREAM

Academic Supervisors: S. Ahmed Email: <u>mgmtss@utsc.utoronto.ca</u> (BBA) S. Damouras Email: <u>sdamouras@utsc.utoronto.ca</u> (BSc)

#### Program Director: C. Arsenault E-mail: mgmtcoop@utsc.utoronto.ca

The Double Degree program combines the Specialist (Co-operative) Program in Management and Finance and the Specialist (Co-operative) Program in Statistics, Quantitative Finance stream. Students completing the Double Degree program will qualify to graduate with two degree designations – the Bachelor of Business Administration (BAA) and the Honours Bachelor of Science (BSc), assuming all other degree criteria are met.

The Double Degree program is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in public and private enterprises. Depending on their needs and abilities, students work in areas such as finance, insurance, data analytics, accounting, consulting, business intelligence, marketing, policy, strategic planning and entrepreneurship. The Double Degree program will equip students with a comprehensive understanding of financial markets, and develop the business and quantitative skills required to function in them.

The Double Degree 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 five years, or until graduation requirements are met. It requires 11 four-month terms of study and 3 four-month work terms.

#### **Enrolment Requirements**

Enrolment in the Double Degree program is limited.

1. Students applying directly from high school are admitted on the basis of academic performance. They must have completed Grade 12 English, Grade 12 Advanced Functions, and Grade 12 Calculus & Vectors. Applicants must also submit a Supplementary Application Form.

Course Guidelines for Students Admitted to Double Degree Program Directly from High School Students must complete the following courses in their first year of study: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>, <u>MATA36H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGMA01H3</u> and <u>MGTA36H3</u>.

2. Students already pursuing a BBA program and degree may apply to enter this Double Degree program. The application can be made before the end of the Winter semester and/or before the end of the Summer semester. Application for admission will be considered only for the round during which the student has made the Subject POSt request. Students considering switching to the Double Degree program should consult with the program supervisors as soon as possible.

The minimum Cumulative Grade Point Average (CGPA) for Program admission is calculated for each application period, and is based on University of Toronto courses only. Decisions are made when all grades have been received.

Students must have completed at least 4.5 credits (none of which can be designated as CR/NCR), including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, MGAB01H3, MGAB02H3, MGTA35H3 or MGTA36H3, MATA22H3, <u>MATA30H3</u>, and <u>MATA36H3</u>. Students who have taken the sequence [<u>MATA32H3</u> and <u>MATA33H3</u>] instead of [<u>MATA30H3</u> and <u>MATA36H3</u>] can still apply to the Double Degree Program if they are taking or plan to take <u>MATA36H3</u> at the time of application and could receive admission conditional on their grade in <u>MATA36H3</u> being above a threshold to be specified each year. Note that MATA36H3 will be treated as an Extra (EXT) course in this case.

Students may apply until they have completed up to 10.0 credits. Students who have completed more than 10.0 credits will not be able to apply to the Double Degree Program. For those who apply with more than 4.5 credits, their CGPA at the time of application will be calculated with more weight assigned to the required courses listed under the 4.5 credits.

Applicants must submit a resume and covering letter to the Management Co-op Office during the limited Subject POSt request period outlined on the Registrar's website (<u>https://www.utsc.utoronto.ca/registrar/dates-and-deadlines</u>). For information on what to include in your resume and covering letter, visit the Management Co-op website (<u>http://www.utsc.utoronto.ca/mgmt/management-admissions</u>). An interview may also be required.

#### CGPA Requirement to Remain in the Double Degree Co-op Program

Students must maintain a CGPA of 2.5 or higher. Students whose CGPA falls below 2.5 will be placed on probation. Students on probation will be reinstated to the Double Degree program 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 2.5. Students who cannot get out of probation in two consecutive sessions, or whose CGPA falls below 2.3, will be removed from the Double Degree Co-op Program. Students removed from the Double Degree (Specialist Co-op Programs) can pursue the Double Degree (Specialist Programs), or one of its non Co-op constituent programs (i.e., the BBA Specialist Program in Management and Finance, or the BSc Specialist Program in Statistics, Quantitative Finance stream).

#### **Program Requirements**

The Double Degree program requires the completion of 25.0 credits. 22.0 credits are core program requirements as listed below, and 3.0 further credits are required to complete degree requirements.

#### 1. Communications requirement (0.5 credit)

MGTA36H3 Management Communications for Co-op

#### 2. Management requirements (5.5 credits)

MGAB01H3 Introductory Financial Accounting I MGAB02H3 Introductory Financial Accounting II MGAB03H3 Introductory Management Accounting [MGHB02H3 Managing People and Groups in Organizations or [(MGTB23H3) and (MGTB29H3)] or (MGTB27Y3)] MGHB12H3 Human Resource Management MGHC02H3 Management Skills MGMA01H3 Principles of Marketing MGMB01H3 Marketing Management MGOC10H3 Analysis for Decision-Making MGOC20H3 Operations Management: A Mathematical Approach MGTA05H3 Foundations of Business Management or [(MGTA01H3) and (MGTA02H3)]

#### 3. Science requirements (9.0 credits)

CSCA08H3 Introduction to Computer Science I CSCA48H3 Introduction to Computer Science II CSCC37H3 Introduction to Numerical Algorithms for Computational Mathematics MATA22H3 Linear Algebra I for Mathematical Sciences MATA30H3 Calculus I for Physical Sciences MATA36H3 Calculus II for Physical Sciences 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 MATB61H3 Linear Programming and Optimization MATC46H3 Differential Equations II STAB52H3 An Introduction to Probability STAB57H3 An Introduction to Statistics STAC62H3 Stochastic Processes STAC67H3 Regression Analysis

#### 4. Economics requirements (2.0 credits)

<u>MGEA02H3</u> Introduction to Microeconomics: A Mathematical Approach <u>MGEA06H3</u> Introduction to Macroeconomics: A Mathematical Approach <u>MGEB02H3</u> Price Theory: A Mathematical Approach <u>MGEB06H3</u> Macroeconomic Theory and Policy: A Mathematical Approach

#### 5. Finance requirements (5.0 credits)

<u>MGFB10H3</u> Principles of Finance <u>MGFC10H3</u> Intermediate Finance [<u>MGFC30H3</u> Introduction to Derivatives Markets or <u>STAB41H3</u> Financial Derivatives] <u>MGFD10H3</u> Investments <u>STAC70H3</u> Statistics and Finance I <u>STAD70H3</u> Statistics and Finance II

#### 6. At least four courses (2.0 credits) from:

MGEC71H3Money and BankingMGFC20H3Personal Financial ManagementMGFC50H3International Financial ManagementMGFC60H3Financial Statement Analysis & Security ValuationMGFD15H3Special Topics in Finance: Private EquityMGFD30H3Risk ManagementMGFD40H3Investor Psychology and Behavioural FinanceMGFD50H3Mergers and Acquisitions: Theory and PracticeMGFD60H3Financial Modeling and Trading StrategiesMGFD70H3Advanced Financial Management

**NOTE**: In selecting options and electives, students should refer to the guidelines for program breadth and depth found in section <u>6A.2 (Degree</u> <u>Requirements</u>) of the Calendar.

#### **Co-op Work Term Requirements**

All Double Degree program Co-op students must take <u>MGTA36H3</u> prior to commencement of their first work term. Students are advised to consult regularly with the Academic Supervisors, or the Program Director, 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.

Students who apply after first year and are successful in receiving a June offer will be expected to complete a Co-op Work Term Preparation Course (WTPC) beginning in the third week of June, and continuing throughout the summer.

To compete for a work term a student must maintain a 2.5 CGPA, and must have completed:

1. For the first work term:

a) 7.0 credits, including: <u>MGTA05H3</u>, <u>MGEA02H3</u>, <u>MGEA06H3</u>, <u>MGAB01H3</u>, <u>MGAB02H3</u>, <u>MGTA35H3</u> or <u>MGTA36H3</u>, <u>MATA22H3</u>, and <u>[MATA32H3]</u> or <u>[MATA30H3]</u> and <u>MATA36H3</u>].

b) The Management Co-op Work Term Preparation Course (WTPC): COPD07Y3.

2. For the second work term: 9.0 credits.

3. For the third work term: 11.0 credits.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of this Calendar.

### SPECIALIST (CO-OPERATIVE) PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon Email: <u>mahinda@utsc.utoronto.ca</u> (416-208-4748) Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Specialist (Co-operative) Program in Statistics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Statistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

#### Enrolment is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program (<u>CSCA08H3</u>, <u>CSCA08H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>/<u>MATA31H3</u> and <u>MATA36H3</u>/<u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>MATB24H3</u>, <u>MATB41H3</u>, <u>MATB61H3</u>, <u>STAB52H3</u>, and <u>STAB57H3</u>. Students are admitted on the basis of academic performance; students should consult the departmental website for more information. In addition, they must also have a CGPA of at least 2.5 across all attempted courses.

#### Prospective Co-op Students:

Prospective students (i.e., those not already admitted to a Co-op Degree POSt) may apply to the Co-op Program after completing 4.0 credits, and must have passed all of the core A-level courses required in the program (<u>CSCA08H3</u>, <u>CSCA08H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>/<u>MATA31H3</u> and <u>MATA36H3</u>/<u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.75 across all attempted courses.

In addition to requesting the Co-op Program on ACORN, prospective students must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Specialist Program in Statistics.

#### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Specialist (Co-op) Program in Statistics and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

- 1. COPD01H3 Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC
- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

#### 2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3
- This course will be completed eight months in advance of the first scheduled work term
- 3. <u>COPD11H3</u> Managing your Work Term Search & Transition to Work
- Prerequisite: COPD03H3
- This course will be completed four months in advance of the first work scheduled work term
- 4. COPD12H3 Integrating Your Work Term Experience Part I
- Prerequisite: COPD11H3 and one Co-op work term
- This course will be completed four months in advance of the second scheduled work term
- 5. <u>COPD13H3</u> Integrating Your Work Term Experience Part II
- Prerequisite: COPD12H3 and two Co-op work terms
- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.
## SPECIALIST PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca (416-208-4748)

#### **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 Science Stream focuses on applications of statistical theory and concepts to the discovery (or "learning") of patterns in data. 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 further study in Statistical Machine Learning.

#### **Enrolment Requirements**

# The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Specialist in Statistics (all streams) is limited. Students may apply to enter the program after completing 4.0 credits, and must have passed all of the core A-level courses in the program (<u>CSCA08H3</u>, <u>CSCA08H3</u>, <u>MATA22H3</u>, <u>MATA30H3</u>/ <u>MATA31H3</u>, and <u>MATA36H3</u>/ <u>MATA37H3</u>). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information.

Students who are not admitted as above, may apply after completing at least 7.5 credits, including the core A-level courses listed above as well as <u>MATB24H3</u>, <u>MATB41H3</u>, <u>MATB61H3</u>, <u>STAB52H3</u>, and <u>STAB57H3</u>. Students are admitted on the basis of academic performance; students should consult the departmental website for more information.

#### **Program Requirements**

To complete the program, a student must meet the course requirements described below.

The first year requirements of the two streams are almost identical, except that the Quantitative Finance stream requires <u>MGEA02H3</u>/ (<u>ECMA04H3</u>) while the Statistical Machine Learning and Data Science stream requires [<u>CSCA67H3</u> or <u>MATA67H3</u>]; 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. <u>STAB52H3</u>, <u>STAB57H3</u> and <u>STAC67H3</u>, 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) (\*)

0.5 credit from the following: <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CTLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGA11H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>, <u>ENGB09H3</u>, <u>ENGB17H3</u>, <u>ENGB19H3</u>, <u>ENGB50H3</u>, (<u>ENGB51H3</u>), <u>GGRA02H3</u>, <u>GGRA03H3</u>, <u>GGRB05H3</u>, (<u>GGRB06H3</u>), (<u>HISA01H3</u>), (<u>HLTA01H3</u>), <u>ACMA01H3</u>, (<u>HUMA01H3</u>), (<u>HUMA11H3</u>), (<u>HUMA17H3</u>), (<u>LGGA99H3</u>), <u>LINA01H3</u>, <u>PHLA10H3</u>, <u>PHLA11H3</u>, <u>WSTA01H3</u>.

(\*) 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

 MATA22H3
 Linear Algebra I or Mathematical Sciences

 and
 0.5 credit from the following:

 MATA31H3\*
 Calculus I for Mathematical Sciences

 MATA30H3
 Calculus I for Physical Sciences

 and
 0.5 credit from the following:

 MATA30H3
 Calculus I for Physical Sciences

 and
 0.5 credit from the following:

 MATA30H3
 Calculus I for Physical Sciences

 and
 0.5 credit from the following:

 MATA37H3\*
 Calculus II for Mathematical Sciences

 MATA36H3
 Calculus II for Physical Sciences

 (\*) MATA31H3
 and MATA37H3

 (\*) MATA31H3
 and MATA37H3

### 3. B-level courses (2.5 credits)

<u>MATB24H3</u> Linear Algebra II <u>MATB41H3</u> Techniques of the Calculus of Several Variables I <u>MATB61H3</u> Linear Programming and Optimization STAB52H3 Introduction to Probability STAB57H3 Introduction to Statistics

4. C-level courses (1.5 credits)

<u>CSCC37H3</u> Introduction to Numerical Algorithms for Computational Mathematics <u>STAC62H3</u> Stochastic Processes <u>STAC67H3</u> 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 <u>STAC70H3</u> Statistics and Finance I <u>STAD57H3</u> Time Series Analysis <u>STAD70H3</u> Statistics and Finance II and 1.0 credit from the following: <u>CSCC11H3</u> Introduction to Machine Learning and Data Mining <u>MATC37H3</u> Introduction to Real Analysis <u>STAC51H3</u> Categorical Data Analysis <u>STAC58H3</u> Statistical Inference <u>STAC63H3</u> Probability Models <u>STAD68H3</u> Advanced Machine Learning and Data Mining <u>STAD94H3</u> Statistics Project <u>APM462H1</u> Nonlinear Optimization

Note: Students enrolled in this stream should also consider taking complementary courses in economics and finance (e.g. <u>MGEA06H3</u>/ (<u>ECMA06H3</u>), <u>MGEB02H3</u>/(<u>ECMB02H3</u>), <u>MGEB06H3</u>/(<u>ECMB06H3</u>), <u>MGEC72H3</u>/(<u>ECMC49H3</u>)), or a Minor in Economics for Management Studies.

#### **B. Statistical Machine Learning and Data Science 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 (2.0 credits)

<u>CSCB07H3</u> Software Design <u>CSCB20H3</u> Introduction to Databases and Web Applications <u>CSCB36H3</u> Introduction to the Theory of Computation <u>CSCB63H3</u> Design and Analysis of Data Structures

#### 8. Additional Upper Level courses (3.0 credits)

<u>CSCC11H3</u> Introduction to Machine Learning and Data Mining <u>STAC58H3</u> Statistical Inference <u>STAD68H3</u> Advanced Machine Learning and Data Mining and

1.5 credits from the following (\*):

Any C or D-level CSC, MAT or STA courses, excluding: <u>STAC32H3</u>, <u>STAC53H3</u> and <u>STAD29H3</u>, two 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.

## **MAJOR PROGRAM IN STATISTICS (SCIENCE)**

Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca

Recommended Writing CourseStudents are urged to take a course from the following list of courses by the end of their second year. <u>ANTA01H3</u>, <u>ANTA02H3</u>, (<u>CLAA02H3</u>), (<u>CLLA19H3</u>), <u>CTLA01H3</u>, <u>ENGA10H3</u>, <u>ENGB06H3</u>, <u>ENGB07H3</u>, <u>ENGB08H3</u>,

# ENGB09H3, ENGB17H3, ENGB19H3, ENGB50H3, (ENGB51H3), GGRA02H3, GGRA03H3, GGRB05H3, (GGRB06H3), (HISA01H3), (HISA01H

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Major Program in Statistics is limited.

Students may apply to enter the program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required for the program ([CSCA08H3 or CSCA20H3], MATA22H3, [MATA30H3 or MATA31H3] and [MATA36H3 or MATA37H3]). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information.

#### **Program Requirements**

This program requires 8.0 credits.

#### 1. A-level courses

MATA22H3 Linear Algebra I for Mathematical Sciences

[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\*

#### 3. Upper-level courses

<u>STAC67H3</u> Regression Analysis\* and 2.0 credits from the following: any C- or D-level (or 300-400 on St. George) STA courses, except: <u>STAC32H3 STAC53H3</u> and <u>STAD29H3</u> and 1.0 credit from the following: <u>ACTB40H3</u>, or any C- or D-level (or 300-400 on St. George) CSC, MAT or STA courses \* <u>STAB52H3</u>, <u>STAB57H3</u>, <u>STAC67H3</u> - These courses must be taken at UTSC. No substitutes are permitted without permission of the program supervisor.

## 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:

#### 1. 0.5 credit from the following:

<u>CSCA08H3</u> Introduction to Computer Science I <u>CSCA20H3</u> Introduction to Programming <u>CSC120H1</u> Computer Science for the Sciences <u>CSC121H1</u> Computer Science for Statistics

#### 2. 0.5 credit from the following:

<u>STAB22H3</u> Statistics I <u>STAB23H3</u> Introduction to Statistics for the Social Sciences <u>MGEB11H3</u>/(<u>ECMB11H3</u>) Quantitative Methods in Economics I <u>PSYB07H3</u> Data Analysis in Psychology <u>STA220H1</u> The Practice of Statistics I

#### 3. 0.5 credit from the following:

<u>STAB27H3</u> Statistics II <u>MGEB12H3/(ECMB12H3)</u> Quantitative Methods in Economics II <u>PSYC08H3</u> Advanced Data Analysis in Psychology <u>STA221H1</u> The Practice of Statistics II

#### 4. 1.5 credits as follows:

<u>STAC32H3</u> Applications of Statistical Methods <u>STAC50H3</u> Data Collection <u>STAD29H3</u> Statistics for Life and Social Scientists

#### 5. 1.0 credit from the following: [one of the following: any ACT, CSC, MAT, STA course] [one of the following: <u>MGEA02H3/(ECMA04H3)</u>, <u>MGEA06H3/(ECMA06H3)</u>, <u>MGEB02H3/(ECMB02H3</u>), <u>MGEB06H3/(ECMB06H3)</u>, <u>MGEC11H3/(ECMC11H3)</u>, <u>MGED11H3/(ECMD10H3)</u>, <u>MGED70H3/(ECMD70H3)</u>] <u>GGRB02H3</u> <u>HLTB15H3</u> [one of the following: <u>MGFB10H3/(MGTB09H3)</u>, <u>MGFC30H3/(MGTC71H3)</u>, <u>MGOC10H3/(MGTC74H3)</u>, <u>MGMC01H3/(MGTD07H3)</u>, <u>MGMD01H3/(MGTD30H3)</u>] POLC11H3

## MAJOR (CO-OPERATIVE) PROGRAM IN STATISTICS (SCIENCE)

Supervisor of Studies: M. Samarakoon (416-208-4748), <u>mahinda@utsc.utoronto.ca</u> Co-op Contact: <u>askcoop@utsc.utoronto.ca</u>

The Major (Co-op) Program in Statistics is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Statistics upon graduation.

In addition to their academic course requirements, students must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of three Co-op work terms.

#### **Enrolment Requirements**

The following enrolment requirements are effective as of the Summer 2019 session; Students applying to begin the program in Summer 2019, or in any subsequent session, must meet these requirements. These requirements are not retroactive to previous academic sessions.

Enrolment in the Major (Co-operative) Program in Statistics is limited.

#### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must have passed all of the A-level CSC and MAT courses required in the program ([CSCA08H3] or CSCA20H3], MATA22H3, [MATA30H3] or MATA31H3], and [MATA36H3] or MATA37H3]). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

### Prospective Co-op Students:

Prospective students (i.e., those not already admitted to a Co-op Degree POSt) may apply to the Co-op Program after completing 4.0 credits, and must have passed all of the A-level CSC and MAT courses required in the program ([ <u>CSCA08H3</u> or <u>CSCA20H3</u>], <u>MATA22H3</u>, [<u>MATA30H3</u> or <u>MATA31H3</u>], and [<u>MATA36H3</u> or <u>MATA37H3</u>]). Students are admitted on the basis of academic performance in program courses; students should consult the departmental website for more information. In addition, they must also have achieved a CGPA of at least 2.5 across all attempted courses.

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-op Office (<u>http://www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Office of the Registrar each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

#### **Program Requirements**

Students must complete the program requirements as described in the Major Program in Statistics.

### **Co-op Work Term Requirements**

Students must satisfactorily complete three Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Statistics and have completed at least 7.0 credits.

In addition to their academic program requirements, Co-op students complete up to five Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

#### Co-op Preparation Course Requirements:

- 1. COPD01H3 Foundations for Success in Arts & Science Co-op
- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC students entering Co op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in April/May will complete this course in the summer term
- Current UTSC students entering Co-op in July/August will complete this course in the fall term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. COPD11H3 - Managing your Work Term Search & Transition to Work

- Prerequisite: COPD03H3

- This course will be completed four months in advance of the first work scheduled work term

4. COPD12H3 - Integrating Your Work Term Experience Part I

- Prerequisite: COPD11H3 and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

5. COPD13H3 - Integrating Your Work Term Experience Part II

- Prerequisite: COPD12H3 and two Co-op work terms

- This course will be completed four months in advance of the third scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC Calendar.

## **MINOR PROGRAM IN STATISTICS (SCIENCE)**

Supervisor of Studies: M. Samarakoon Email: mahinda@utsc.utoronto.ca

#### **Program Requirements**

This program requires 4.0 credits.

#### 1. First Year (2.0 credits)

[CSCA08H3 Introduction to Computer Science I *or* <u>CSCA20H3</u> Computer Science for the Sciences] <u>MATA23H3</u> Linear Algebra I [MATA30H3 Calculus I for Physical Sciences *or* <u>MATA31H3</u> Calculus I for Mathematical Sciences] and

[MATA36H3] Calculus II for Physical Sciences or MATA37H3 Calculus II for Mathematical Sciences.] Notes:

1. The sequence <u>MATA31H3</u> and <u>MATA37H3</u> is recommended.

2. MATA31H3 is the pre-requisite for MATA37H3.

2. Second Year (1.0 credit) <u>STAB52H3</u> An Introduction to Probability STAB57H3 An Introduction to Statistics

**3. Third and Fourth Year (1.0 credit)** <u>STAC67H3</u> Regression Analysis

4. 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, yield rates on investments given the costs on investments.

Prerequisite: MATA30H3 or MATA31H3 or MATA32H3 Exclusion: ACT240H, MGFB10H3/( MGTB09H3), ( MGTC03H3) Breadth Requirements: 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/(MGTB09H3)/(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/(MGTB09H3)/(MGTC03H3), even if they have credit for ACTB40H3, but will only be permitted to count one of ACTB40H3 and MGFB10H3/(MGTB09H3)/(MGTC03H3) towards the 20 credits required to graduate.

### STAA57H3 - Introduction to Data Science

Reasoning using data is an integral part of our increasingly data-driven world. This course introduces students to statistical thinking and equips them with practical tools for analyzing data. The course covers the basics of data management and visualization, sampling, statistical inference and prediction, using a computational approach and real data.

Prerequisite: CSCA08H3 Exclusion: STAB22H3, STA130H, STA220H Breadth Requirements: Quantitative Reasoning

## 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, MGEB11H3/(ECMB11H3), (POLB11H3), PSYB07H3, (SOCB06H3), STAB23H3, STAB52H3, STAB57H3, STA220H, STA250H Breadth Requirements: 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 of the course introduces descriptive statistics, contingency tables, normal probability distribution, and sampling distributions. The second half of the course introduces inferential statistical methods. These topics include significance test for a mean (t-test), significance test for a proportion, comparing two groups (e.g., comparing two proportions, comparing two means), associations between categorical variables (e.g., Chi-square test of independence), and simple linear regression.

Exclusion: ANTC35H3, MGEB11H3/( ECMB11H3), ( POLB11H3), PSYB07H3, ( SOCB06H3), STAB22H3, STAB52H3, STAB57H3, STA220H, STA250H Breadth Requirements: 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 or STAB23H3 Exclusion: MGEB12H3/( ECMB12H3), STAB57H3, STA221H, STA250H Breadth Requirements: Quantitative Reasoning

### STAB41H3 - Financial Derivatives

A study of the most important types of financial derivatives, including forwards, 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 Requirements: 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: MATA33H3 or MATA36H3 or MATA37H3 Exclusion: PSYB07H3, STA107H, STA257H Breadth Requirements: 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, bootstrapping, Bayesian methods, relationship among variables, contingency tables, regression, ANOVA, logistic regression, applications. A computer package will be used.

#### Prerequisite: STAB52H3 Exclusion: STAB22H3, STA261H Breadth Requirements: 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 MGEB12H3/(ECMB12H3) or PSYC08H3 or STA221H1 or STA248H1 or STA261H1 Breadth Requirements: Quantitative Reasoning

### STAC50H3 - Data Collection

The principles of proper collection of data for statistical analysis, and techniques to adjust statistical analyses when 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 MGEB12H3/(ECMB12H3) or PSYC08H3 or STA221H1 or STA248H1 or STA261H1 Exclusion: STA304H Breadth Requirements: 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.

 $\ensuremath{\textbf{Prerequisite:}}\xspace$  STAB27H3 or STAB57H3 or MGEB12H3/( ECMB12H3) or PSYC08H3

Breadth Requirements: Quantitative Reasoning

## STAC58H3 - 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 Breadth Requirements: 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 Requirements: 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 Requirements: Quantitative Reasoning

## STAC67H3 - Regression Analysis

Orthogonal projections. Univariate normal distribution theory. The linear model and its statistical analysis, residual analysis, influence analysis, collinearity analysis, model selection procedures. Analysis of designs. Random effects. Models for categorical data. Nonlinear models. Instruction in the use of SAS.

Prerequisite: STAB57H3 Exclusion: STA302H Breadth Requirements: 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 Requirements: Quantitative Reasoning

## STAD29H3 - 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 Requirements:** Quantitative Reasoning

### STAD37H3 - Multivariate Analysis

Linear algebra for statistics. Multivariate distributions, the multivariate normal and some associated distribution theory. Multivariate regression analysis. Canonical correlation analysis. Principal components analysis. Factor analysis. Cluster and discriminant analysis. Multidimensional scaling. Instruction in the use of SAS.

Prerequisite: STAC67H3 Exclusion: STA437H, (STAC42H3) Breadth Requirements: 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 Requirements: 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 Requirements: Quantitative Reasoning

### STAD70H3 - Statistics and Finance II

A survey of statistical techniques used in finance. Topics include meanvariance 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 Requirements: 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 Requirements:** 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 Requirements:** Quantitative Reasoning

## STAD94H3 - Statistics Project

A significant project in any area of statistics. The project may be undertaken individually or in small groups. This course is offered by arrangement with a statistics 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. Students must obtain consent from the Supervisor of Studies before registering for this course.

## STAD95H3 - Statistics Project

A significant project in any area of statistics. The project may be undertaken individually or in small groups. This course is offered by arrangement with a statistics 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:** Students must obtain consent from the Supervisor of Studies before registering for this course. **Breadth Requirements:** Quantitative Reasoning

# Studio

Program Director: until June 30, 2018, M. Hlady, Email: <u>mhlady@utsc.utoronto.ca</u>, starting July 1, 2018, W. Kwan, Email: <u>wkwan@utsc.utoronto.ca</u>

Program Advisor: M. Hussain, Email: mhussain@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, kinetics, 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.

Some courses in Studio (VPS) may include Ancillary fees for lab and workshop materials.

## Guidelines for course selection

The table below provides the recommended course selection guidelines for students wishing to complete the Major and Specialist Programs in Studio. To assure graduating when expected, all students should pay special attention to *prerequisites and corequisites* when selecting courses, this is especially important for C- and D-level courses. Students wishing to complete the Minor Program do not require D-level courses.

Year of Study	Fall	Winter
First Year	<u>VPSA62H3</u> Foundation Studies in Studio <u>VPSA63H3</u> But Why is it Art? <u>VPSB56H3</u> Digital Studio I <u>VPHA46H3</u> Ways of Seeing	<u>ACMB01H3</u> Critical Reading, Thinking and Writing for ACM Programs Any from: <u>VPSB58H3</u> Video I; <u>VPSB59H3</u> Sculpture I; <u>VPSB70H3</u> Drawing I
Second Year	B-level Studio courses	B and C-level Studio courses
Third Year	B and C-level Studio courses	C-level Studio courses
Fourth Year	D-level Studio course #1	D-level Studio course #2

## Studio Course Selection Table:

Since Studio is a limited enrolment program you need to apply for entry, please see below for instructions.

## Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

# **Studio Programs**

# **SPECIALIST PROGRAM IN STUDIO (ARTS)**

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

## **Enrolment Requirements**

Enrolment in the Specialist in Studio is limited. Students must apply to enter the program after completing four credits including <u>VPSA62H3</u> and <u>VPSA63H3</u>. 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 ACORN. Admission is determined on the basis of a student's overall GPA and grades in <u>VPSA62H3</u> and <u>VPSA63H3</u>. For students applying after 8-10 credits, admission will be based on the overall GPA and grades in VPS courses taken.

## Program Requirements

This program requires the completion of 14.0 credits, including 4.0 credits at the C-or D-level of which at least 1.0 credit must be at the D-level.

## 1. (3.0 credits)

ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs MDSA01H3 Introduction to Media Studies VPSA62H3 Foundation Studies in Studio VPSA63H3 But Why is it Art? VPSB56H3 Digital Studio I VPSB73H3 Curatorial Perspectives I

## 2. (0.5 credit)

Choose from the following: <u>VPSB58H3</u> Video I <u>VPSB59H3</u> Sculpture I <u>VPSB70H3</u> Drawing I

## 3. (0.5 credit)

Choose from the following: <u>VPSC56H3</u> Studio Practice <u>VPSC59H3</u> Theory and Practice: Three-Dimensional Work <u>VPSC66H3</u> Theory and Practice: Two Dimensional Work <u>VPSC68H3</u> Theory and Practice: Time-Based Work <u>VPSC69H3</u> Theory and Practice: Art in a Globalizing World <u>VPSC70H3</u> Theory and Practice: New Media in Studio

## 4. (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.

## 5. (3.0 credits)

<u>VPHA46H3</u> Ways of Seeing: Introduction to Art Histories 2.5 additional credits in art history of which 1.0 credit should be at the C- level.

## 6. (1.0 credit)

Choose from the following: <u>ENGB12H3</u> Life Writing <u>ENGB70H3</u> How to Read a Film <u>ENGB75H3</u> Cinema and Modernity I <u>GASC42H3</u> Film and Popular Culture in South Asia <u>MDSA02H3</u> History of Media <u>MDSB05H3</u> Media and Globalization <u>MDSB61H3</u> Mapping New Media <u>MDSB62H3</u> Visual Culture and Communication

# **MAJOR PROGRAM IN STUDIO (ARTS)**

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

## **Enrolment Requirements**

Enrolment in the Major in Studio is limited. Students must apply to enter the program after completing four credits including <u>VPSA62H3</u> and <u>VPSA63H3</u>. 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 ACORN. Admission is determined on the basis of a students overall GPA and grades in <u>VPSA62H3</u> and <u>VPSA63H3</u>.

## **Program Requirements**

Students must complete 8.0 credits as follows:

1. 1.0 credit as follows: <u>VPSA62H3</u> Foundation Studies in Studio <u>VPSA63H3</u> 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. VPSB56H3 Digital Studio I

## 5. At least 0.5 credit from:

<u>VPSB58H3</u> Video I <u>VPSB59H3</u> Sculpture I <u>VPSB70H3</u> Drawing I

## 6. At least 0.5 credit from:

VPSC56H3Studio PracticeVPSC59H3Theory and Practice: Three-Dimensional WorkVPSC66H3Theory and Practice: Two-Dimensional WorkVPSC68H3Theory and Practice: Time-Based WorkVPSC69H3Theory and Practice: Art in a Globalizing WorldVPSC70H3Theory and Practice: New Media in Studio

## 7. 3.5 additional credits from courses in VPS, at least one full credit of which must be at the C-level.

## 8. 1.0 credit at the D-level in VPS

# **MINOR PROGRAM IN STUDIO (ARTS)**

Undergraduate Advisor (General): Email: studio-program-supervisor@utsc.utoronto.ca

## **Enrolment Requirements**

Enrolment in the Minor in Studio is limited. Students must apply to enter the program after completing four credits including <u>VPSA62H3</u> and <u>VPSA63H3</u>. 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 ACORN. Admission is determined on the basis of a student's overall GPA and grades in <u>VPSA62H3</u> and <u>VPSA63H3</u>.

## **Program Requirements**

Students are required to complete a total of 4.0 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. At least 0.5 credit from:

VPSB56H3 Digital Studio I VPSB58H3 Video I VPSB59H3 Sculpture I VPSB70H3 Drawing I

### 5. 1.0 credit at the B-level in VPS

### 6. 0.5 credit from the following:

VPSC56H3 Studio Practice VPSC59H3 Theory and Practice: Three-Dimensional Work 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 credit at the C-level in VPS

## **Studio Courses**

# 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 Requirements: 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 wideranging set of forms, media and approaches.

**Exclusion:** VIS120H, JAV120H, VST101H **Breadth Requirements:** History, Philosophy & Cultural Studies

## VPSB56H3 - 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, chromakey, and typograpic 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: (VPSA74H3), VIS218H, FAS147H Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

## VPSB58H3 - 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.

Prerequisite: VPSA62H3 and VPSA63H3 Exclusion: (VPSA73H3), VIS202H Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

# VPSB59H3 - Sculpture I

This course introduces students to the use of threedimensional materials and processes for creating sculptural objects. Traditional and non-traditional sculptural methodologies and concepts will be explored.

Prerequisite: VPA62H3 and VPSA63H3 Exclusion: (VPSA71H3) FAS248H Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

# VPSB61H3 - Painting I

An investigation of the basic elements and concepts of painting through experimentation in scale and content.

Prerequisite: VPSA62H3 and VPSA63H3 Exclusion: (VPSA61H3), VIS201H, FAS145H Enrolment Limits: 20 per section Breadth Requirements: Arts, Literature & Language

# VPSB62H3 - Painting II

A continuation of Painting I with an emphasis on images and concepts developed by individual students.

Prerequisite: VPSB61H3 Exclusion: VIS220H, FAS245H Enrolment Limits: 20 Breadth Requirements: 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: VPSB56H3 Exclusion: (VPSA72H3), VIS218H, FAS147H Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

# VPSB70H3 - Drawing I

An investigation of the various approaches to drawing, including working from the figure and working with ideas.

Prerequisite: VPSA62H3 and VPSA63H3 Exclusion: (VPSA70H3), VIS205H, FAS143H Enrolment Limits: 20 per section Breadth Requirements: 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 Exclusion: VIS321H Enrolment Limits: 20 Breadth Requirements: 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 B-level in VPS courses]] or [enrolment in the Minor in Curatorial Studies] Exclusion: VIS320H Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

## VPSB74H3 - Drawing II

A continuation of VPSB70H3 with an increased emphasis on the student's ability to expand her/his personal understanding of the meaning of drawing.

Prerequisite: VPSA62H3and VPSA63H3 and VPSB70H3 Exclusion: VIS211H, FAS243H Enrolment Limits: 20 Breadth Requirements: 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: VPSB67H3 Exclusion: FAS247H, VIS318H Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

## VPSB76H3 - Video II

This course explores advanced camera and editing techniques as well as presentation strategies using installation, projection, and multiple screens. Students will make projects using both linear and non-linear narratives while exploring moving image influences from online culture, popular media, surveillance culture, cinema, photography, performance, and sculpture.

Prerequisite: VPSB58H3 Exclusion: VIS302H Enrolment Limits: 15 Breadth Requirements: 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 Requirements: 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: VPSB56H3 Exclusion: FAS247H, VIS318H Recommended Preparation: VPSB67H3 Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

# VPSB85H3 - Text as Image/Language as Art

This course looks at how visual artists employ words in their art. Students will be introduced to the experimental use of text in contemporary art: how typography has influenced artists and the role of language in conceptual art by completing projects in various media.

Prerequisite: VPSA62H3 and VPSA63H3 Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

# VPSB86H3 - Sculpture II

This course introduces students to the time-based use of three-dimensional materials and processes for creating sculptural objects. Students will use both traditional and non-traditional materials in combination with simple technologies.

Prerequisite: [VPSA62H3 and VPSA63H3] and VPSB59H3 Enrolment Limits: 15 Breadth Requirements: 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 Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

# VPSB89H3 - Digital Animation I

A non-traditional course in the digital production of nonanalog, 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 VPSB56H3 Recommended Preparation: VPSB70H3 Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

# VPSB90H3 - 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 threedimensional wire frame and ray-tracing techniques for constructing convincing 3-D animated objects and scenes as they apply to contemporary artistic practices.

Prerequisite: VPSB89H3 Exclusion: (VPSC89H3) Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

## 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 or VPDA11H3 or VPDA15H3] and [1.5 additional credits at the B- or C-level in VPS 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 Requirements:** Arts, Literature & Language

# **VPSC51H3 - Curatorial Perspectives II**

This course focuses on the finer details of curating and/or collecting 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, or the acquisition of an artwork.

**Prerequisite:** [VPHA46H3 and VPSB73H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Enrolment Limits:** 15 **Breadth Requirements:** Arts, Literature & Language

# VPSC53H3 - Kinetic Sculpture

Students will produced time-based three-dimensional artworks. Students will be encouraged to use altered machines, simple electronic components and a wide range of materials.

Prerequisite: [VPHA46H3 and VPSB59H3 and VPSB86H3] and [an additional 1.0 credit at the B- or Clevel in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: (VPSB64H3) Enrolment Limits: 15 Breadth Requirements: 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 [an additional 1.0 credit at the B- or C-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 Requirements:** 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 [an additional 1.0 credit at the B- or C-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 Requirements:** 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 at the B- or Clevel in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: VIS311H, VIS326 Enrolment Limits: 15 Breadth Requirements: 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 [3.0 credits at the B- or Clevel in VPS courses including 0.5 credit taken from: VPSB59H3, VPSB71H3, VPSB77H3, VPSB86H3, or VPSB88H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Exclusion:** VPSC75H3, VIS306H **Enrolment Limits:** 15 **Breadth Requirements:** 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 [3.0 credits at the B- or C-level in VPS courses including 1.0 credit taken from: VPSB56H3, VPSB61H3, VPSB62H3, VPSB67H3, VPSB70H3, VPSB74H3, VPSB75H3, VPSB80H3, or VPSB85H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Exclusion:** VIS211H **Enrolment Limits:** 15 **Breadth Requirements:** 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 [3.0 credits at the B- or Clevel in VPS courses including 0.5 credit taken from: VPSB58H3, VPSB59H3, VPSB76H3, VPSB77H3, VPSB88H3, VPSB89H3, or VPSB90H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: VIS303H, FAS349H Enrolment Limits: 15 Breadth Requirements: 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 [3.0 credits at the B- or Clevel in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: VIS325H Enrolment Limits: 15 Breadth Requirements: 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 [3.0 credits at the B- or Clevel in VPS courses including 0.5 credit taken from: VPSB56H3, VPSB58H3, VPSB76H3, VPSB80H3, VPSB86H3, VPSB88H3, VPSB89H3, VPSB90H3, NMEB05H3, NMEB08H3, or NMEB09H3]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Enrolment Limits: 15

# Breadth Requirements: 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 [2.0 credits at the B- or Clevel in VPS courses including 0.5 credit taken from: VPSB58H3, VPSB67H3, VPSB75H3, VPSB76H3, or VPSB77H31: students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Enrolment Limits: 15

Breadth Requirements: 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 VPSB70H3 and VPSB74H3 and [an additional 1.0 credit at the B- or Clevel in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: VIS308H3 Enrolment Limits: 15 Breadth Requirements: 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 [VPSB59H3 or VPSB71H3 or VPSB86H3]; and [an additional 1.5 credits at the B- or C-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Enrolment Limits: 15 Breadth Requirements: Arts, Literature & Language

# VPSC76H3 - The Documentary Image

Lens-based art forms such as photography and video have a rich tradition as a documentary practice. These media have engendered their own techniques, aesthetic, and cultural context. This course is designed to introduce students to the role of the documentary image in contemporary art practice, through personal, conceptual, and photo-journalistic projects accomplished outside of the studio.

## Prerequisite: VPHA46H3 and VPSB56H3 and

[VPSB58H3 or VPSB67H3] and [1.0 additional credit at the B- or C-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3

Enrolment Limits: 20 Breadth Requirements: Arts, Literature & Language

# VPSC77H3 - Interdisciplinary Photo Concepts

This course will expand photographic practice into a range of other media. Students will explore the sculptural, temporal, performative, and painterly potential of the photograph and photographic technologies.

**Prerequisite:** VPHA46H3 and VPSB56H3 and VPSB67H3 and [1.0 credit at the B- or C-level in Studio courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Exclusion:** VIS318H, FAS347Y **Enrolment Limits:** 15 **Breadth Requirements:** Arts, Literature & Language

# VPSC78H3 - 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:** VPHA46H3 and [2.0 credits at the B-level in VPS courses]; student enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Exclusion:** (VPSB63H3), VIS204H **Enrolment Limits:** 15 **Breadth Requirements:** Arts, Literature & Language

# VPSC79H3 - 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: VPHA46H3 and [2.0 credits at the B- or Clevel in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 Exclusion: VIS307H, VIS310H Enrolment Limits: 20 Breadth Requirements: Social & Behavioural Sciences

# VPSC80H3 - 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 intelligentlydesigned digital publications. Creative solutions are expected.

**Prerequisite:** VPHA46H3 and VPSB56H3 and [an additional 1.5 credits at the B- or C-level in VPS courses]; students enrolled in the Specialist and Major programs in Studio must also complete ACMB01H3 **Exclusion:** (VPSB72H3), VIS328H **Enrolment Limits:** 20 **Breadth Requirements:** Arts, Literature & Language

## VPSD55H3 - Advanced Special Topics in Studio

This advanced Master Class will be taught by a newly invited instructor each time it is offered to provide students with an opportunity to study with an established or emerging artist from the GTA who is engaged in research that is of significance to current art practice.

Prerequisite: 1.5 credits at the C-level in Studio courses Exclusion: VIS401H, VIS402H, VIS403H, VIS404H, VIS410H, FAS450Y, FAS451H, FAS452H Enrolment Limits: 15

# VPSD56H3 - 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.

**Prerequisite:** 1.5 credits at the C-level in Studio. **Exclusion:** VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H **Enrolment Limits:** 15

# VPSD57H3 - 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.

Prerequisite: 1.5 credits at the C-level in Studio. Exclusion: VIS401H, VIS402H, VIS403H, VIS404H, FAS450Y, FAS451H, FAS452H Enrolment Limits: 15

# VPSD58H3 - 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 and completion of the major in studio and written permission of the instructor in the previous session. **Exclusion:** VIS401H, VIS402H, VIS403H, VIS404H

# **Centre for Teaching and Learning**

## **Faculty List**

- C. Hasenkampf, B.Sc. (Loyola), M.Sc., Ph.D. (Florida State U.), Professor
- <u>N. Johnston</u>, B.A. (Trent), M.A., Ph.D. (York), Associate Professor, Teaching Stream
- <u>S. Kang,</u> B.Sc., M.Sc. (Chonnam National University, S. Korea), M.Sc., Ph.D. (Toronto), Assistant Professor, Teaching Stream
- <u>E. Khoo,</u> 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
- <u>K. Persaud, B.Sc.</u> (Toronto), B.Ed. (U. of Western Ontario), Ph.D. (McMaster), Associate Professor, Teaching Stream
- <u>Z. Shahbazi, B.Sc.</u> (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 courses that focus on skill and personal development. <u>CTLA01H3</u> and <u>CTLA02H3</u> are designed for English Language learners to help them bring their academic English skills to a level that matches their other strong academic skills. <u>CTLA10H3</u> explicitly links healthy lifestyles with successful learning. <u>CTLB03H3</u>, our 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 Centre for Teaching and Learning 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 Centre 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 <u>website</u>. Facilitated Study Groups <u>website</u>. Mathematics and Statistics Learning Centre <u>website</u>. Service Learning and Outreach <u>website</u>. The Writing Centre <u>website</u>.

## For Faculty, Graduate Students, Instructors, and Teaching Assistants:

Learning Management Engine (Blackboard is being replaced with Quercus) and other Educational Technology Assistance, please click <u>here</u>. Faculty and Instructors, please click <u>here</u>. Teaching Assistant Training & Graduate Student Support, please click <u>here</u>.

WebOption Lecturecasting, please click here

# Centre For Teaching And Learning 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.

Enrolment Limits: 20 students per practicum Breadth Requirements: 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

Students will develop language, communication and critical thinking skills through an exploration of culture and academic culture(s). Students will use various media in activities and assignments to connect their knowledge and experience with course learning, to foster dynamic academic integration for international students as they develop their English and multi-literacies.

**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.

## Enrolment Limits: 20

**Breadth Requirements:** 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.

## CTLA10H3 - Personal Health and Optimal Learning

Students in this course develop foundational academic skills while critically exploring issues in personal health, including current research on cognitive, academic and mental health benefits of exercise and healthy nutrition. Lectures are complemented by activities at Toronto Pan Am Sports Centre to foster students' application of course materials to both their learning and their health.

Enrolment Limits: 50 Breadth Requirements: Social & Behavioural Sciences

# CTLB03H3 - Introduction to Service Learning

In this experiential learning course, students apply their discipline-specific academic knowledge as they learn from and serve their communities. Students carry out placements where they provide their unique student perspectives to either past university instructors or offcampus community organizations. Through class discussions, workshops and assignments, students also develop transferable skills such as interpersonal communication, professionalism and self-reflection that help them connect theory and practice.

**Prerequisite:** Completion of 4.0 full credits and selection of a U of T Scarborough major or specialist subject POSt. GPA and communication skills will also be considered. **Exclusion:** (SCIB03H3) **Enrolment Limits:** 40 **Breadth Requirements:** Social & Behavioural Sciences

# **Theatre and Performance Studies**

Program Director: B. Freeman Email: <u>barry.freeman@utoronto.ca</u> (416-287-7136) Program Advisor: M. Hussain, Email: <u>mhussain@utsc.utoronto.ca</u>

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 <u>VPDA10H3</u> Introduction to Theatre.

# Not all courses are offered every year. In planning their Programs, students are encouraged to consult the TAPS Program Director.

Some courses in Theatre and Performance Studies (VPD) may include Ancillary fees.

## Guidelines for first year course selection

Students who intend to complete a Theatre and Performance Studies Program should include <u>ACMB01H3</u>, <u>VPDA10H3</u> and <u>VPDA11H3</u> in their first year course selection.

The Theatre and Performance Studies Program Study Guide can be found on the Department of Humanities website.

## Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## **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 credits as follows:

## 1. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

2. 2.0 credits as follows: <u>VPDA10H3</u> Introduction to Theatre <u>VPDA11H3</u> Introduction to Performance VPDB01H3 Intermediate Workshop in Performance I VPDB02H3 Intermediate Workshop in Performance II

## 3. 1.0 credit as follows:

<u>VPDB04H3</u> Experiencing the Live Theatre <u>VPDB15H3</u> The Actor and the Script

**4. 2.0 credits as follows:** <u>VPDB10H3</u> Roots and Traditions <u>VPDB11H3</u> Intercultural and Global Theatre <u>VPDC13H3</u> Theatre and Social Justice 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, 1.0 credit of which must be at the C- or D-level.

In fulfilling requirement #7, students may substitute 1.0 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 ENGB32H3 Shakespeare in Context I ENGB33H3 Shakespeare in Context II ENGB70H3 How to Read a Film ENGC07H3 Canadian Drama ENGC26H3 Drama: Tragedy ENGC27H3 Drama: Comedy GASB15H3 The Arts of South Asia GASC42H3 Film and Popular Culture in South Asia GASC45H3 Film and Popular Cultures in East Asia

# MINOR PROGRAM IN THEATRE AND PERFORMANCE STUDIES (ARTS)

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

### **Program Requirements**

Students must complete 4.0 credits as follows:

### 1. ACMB01H3 Critical Reading, Thinking and Writing for ACM Programs

### 2. VPDA10H3 Introduction to Theatre

[<u>VPDA11H3</u> Introduction to Performance *or* <u>VPDA15H3</u> Introduction to the Fundamentals of Acting] *and* at least 1.0 credit from among the following: [<u>VPDB10H3</u>, <u>VPDB11H3</u>, <u>VPDB13H3</u>, <u>VPDC13H3</u>] **Note:** Students who do not qualify for either <u>VPDA11H3</u> or <u>VPDA15H3</u> should take all of the following courses: <u>VPDB10H3</u>, <u>VPDB11H3</u>, <u>VPDB13H3</u>, <u>VPDC13H3</u>

## 3. 1.5 additional credits in VPD, 1.0 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 Requirements: 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 Requirements: 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 and permission of the Theatre and Performance Studies Teaching Staff **Exclusion:** (VPDA01H3), VPDA11H3 **Enrolment Limits:** 16 **Breadth Requirements:** 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 and VPDA11H3] or [(VPDA01H3) and (VPDA02H3)] and permission of the Theatre and Performance Studies Teaching Staff **Breadth Requirements:** 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 Requirements:** 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 Requirements: 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 Requirements: Arts, Literature & Language

# VPDB10H3 - Roots and Traditions

A study of theatre history in social and cultural context from its origins in early human ritual through to the modern period. 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 Requirements: Arts, Literature & Language

# VPDB11H3 - Intercultural and Global Theatre

A study of theatre and performance as a forum for cultural representation past and present. With a focus on intercultural engagements across borders, particularly in the context of 21st century globalized modernity, the course reveals the importance of performance to how culture is defined and challenged.

Breadth Requirements: Arts, Literature & Language Note: This course may have attached ancillary fees. For additional information go to:<u>http://www.planningandbudget.utoronto.ca/tuition/Ancill</u> ary Fees.htm See: Cost Recovery Ancillary Fees (Category 5)

# 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 Requirements: 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 Requirements: 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 and Performance Studies teaching staff **Exclusion:** DRM400Y **Breadth Requirements:** 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 and Performance Studies and permission of the instructor **Enrolment Limits:** 8 **Breadth Requirements:** 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 Requirements:** Arts, Literature & Language

# **VPDC08H3 - Physical Theatre**

An exploration of a wide range of physical acting techniques such as mime, clown, mask 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 Requirements: Arts, Literature & Language

# VPDC13H3 - Theatre and Social Justice

An examination of theatre and performance in relation to social justice. Building an understanding of power in relation to culture, the course looks at historical and contemporary examples to see the many ways performance may confront issues of social inequality and in justice.

Exclusion: (VPDB12H3), DRM266H Breadth Requirements: 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 and Performance Studies and ACMB01H3 and permission of the Program Director.

Enrolment Limits: 16

**Note:** Further information can be found on the ACM Theatre and 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 and permission of the Theatre and Performance Studies Teaching Staff

# VPDD20H3 - Supervised Studies in Drama, Theatre and Performance

Advanced scholarly projects open to upper-level Theatre and 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 and 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 and 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 and 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 and 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 and 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 and 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 and 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 and 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 Requirements: Arts, Literature & Language

# **Women's 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
- <u>A. Hachimi</u>, M.A., Ph.D. (Hawaii), Associate Professor
- <u>F. lacovetta</u>, 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 Email: wst-undergrad-advisor@utsc.utoronto.ca (416-287-7184)

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.

## Women's and Gender Studies Areas of Concentration Table:

Health, Sexualities, and the Gendered Body	Gender, Equity, and Human Rights
ANTC15H3 Genders and Sexualities ANTD01H3 The Body in Culture and Society ENGB74H3 The Body in Literature and Film (ENGC77H3)/(VPAC48H3) The Body in Contemporary Culture: Theories and Representations GGRD10H3 Health and Sexuality HLTC02H3 Women and Health: Past and Present PSYD18H3 Psychology of Gender WSTB12H3 Senior Seminar in Sex, Gender and the Body	GASB20H3 Gender and Social Institutions in Asia MGHC23H3/(MGTC23H3) Diversity in the Workplace POLC94H3 Globalization, Gender and Development SOCC09H3 Sociology of Gender and Work SOCC38H3 Gender and Education WSTB10H3 Women, Power and Protest WSTC14H3 Women, Community and Policy Change WSTC40H3 Gender and Disability AFSC97H3/HISC97H3 Women in Sub-Saharan Africa WSTD04H3 Senior Seminar in Gender, Equity and Human Rights
Representations and Constructions of Women and Gender	Gender, Local and Global Communities, and Diaspora
ENGB50H3 Women and Literature: Forging a Tradition [(ENGB51H3) or ENGC54H3] Gender and Genre ENGC34H3 Early Modern Women and Literature: 1500- 1700 ENGC51H3 Contemporary Arab Women Writers ENGD80H3 Women and Canadian Writing LINC28H3/WSTC28H3 Language and Gender PHLB13H3 Philosophy and Feminism SOCB22H3 Sociology of Gender (VPHB57H3) Women in the Arts: Hot Mamas, Amazona, and Madonnas WSTB13H3 Gender, Media and Culture WSTC12H3 Writing the Self: Global Women's Autobiographies WSTC16H3 Criminal Women: Gender, Justice and the Media WSTC22H3 Gender and Film WSTD07H3 Themes in the History of Childhood and Culture	ANTC14H3 Feminism and Anthropology GASC20H3 Gendering Global Asia GASD20H3 Advanced Seminar: Social Change and Gender Relations in Chinese Societies GGRD09H3 Feminist Geographies HISC45H3 Immigrant and Race Relations in Canadian History HISD30H3 Gendering America HISD46H3/WSTD46H3 Selected Topics in Canadian Women's History HISD56H3 'Coolies' and Others: Asian Labouring Diasporas in the British Empire HISD16H3/WSTD16H3 Socialist Feminism in Global Context SOCE49H3 Sociology of Family SOCC24H3 Special Topics in Gender and Family SOCC29H3 Family and Gender in the Middle East WSTC10H3 Women and Development (WSTC11H3) Applied Studies in Women and Development WSTC20H3 Women, Gender and Islam WSTC20H3 Women, Gender and Environmental (In)Justice WSTD10H3 Storytelling and Social Change

## Guidelines for first year course selection

Students who intend to complete a Women's and Gender Studies program should first take <u>WSTA01H3</u> and <u>WSTA03H3</u> in their first 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 <u>website</u>.

## Service Learning and Outreach

For an experiential learning opportunity that also serves others, consider the course <u>CTLB03H3</u> (Introduction to Service Learning), which can be found in the 'Teaching and Learning' section of the *Calendar*.

## 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 7.0 credits as follows:

## 1. WSTA01H3 Introduction to Women's and Gender Studies

and <u>WSTA03H3</u> Introduction to Feminist Theory and Thought

## 2. WSTB05H3 Power and Knowledge in Approaches to Research

3. WSTB11H3 Intersections of Inequality

## 4. WSTC02H3 Feminist Qualitative Research in Action

## 5. 1.0 further credit in WST courses

6. 3.5 credits chosen from the courses identified in the Concentrations table shown in the introduction to the Women's and Gender Studies section of the *Calendar*, or any WST Special Topics/Independent Senior Project courses, 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 prerequisites that are not included in the program, and are advised to check course descriptions in advance).

**Note**: To complete requirement #6, students must choose from the courses identified in the Concentrations table, shown above (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. Students may also choose from the following special topics or independent senior project courses to fulfill this requirement: <u>WSTC30H3</u>, <u>WSTC31H3</u>, <u>WSTC32H3</u>, <u>WSTD01H3</u>, <u>WSTD11H3</u>, <u>WSTD46H3</u>. Not all courses are offered every year. Please check the Timetable for availability.

# MAJOR (CO-OPERATIVE) PROGRAM IN WOMEN'S AND GENDER STUDIES (ARTS)

Co-op Contact: askcoop@utsc.utoronto.ca

The Major (Co-op) Program in Women's and Gender Studies is a Work Integrated Learning (WIL) program that combines academic studies with paid work terms in the public, private, and/or non-profit sectors. The program provides students with the opportunity to develop the academic and professional skills required to pursue employment in these areas, or to continue on to graduate training in an academic field related to Women's and Gender Studies upon graduation. In addition to their academic course requirements, student must successfully complete the additive Arts & Science Co-op Work Term Preparation courses and a minimum of two Co-op work terms.

### **Enrolment Requirements**

The minimum qualifications for entry are 4.0 credits, including one of <u>WSTA01H3</u> or <u>WSTA03H3</u>, plus a cumulative GPA of at least 2.5.

### Current Co-op Students:

Students admitted to a Co-op Degree POSt in their first year of study must request a Co-op Subject POSt on ACORN upon completion of 4.0 credits and must meet the minimum qualifications for entry as noted above.

### Prospective Co-op Students:

In addition to requesting the program on ACORN, prospective Co-op students (i.e., those not yet admitted to a Co-op Degree POSt) must also submit a Co-op Supplementary Application Form, which is available from the Arts & Science Co-

op Office (hppt://<u>www.utsc.utoronto.ca/askcoop/future-co-op-students</u>). Submission deadlines follow the Limited Enrolment Program Application Deadlines set by the Registrar's Office each year. Failure to submit both the Supplementary Application Form and the program request on ACORN will result in that student's application not being considered.

## **Program Requirements**

Students are required to complete the program requirements as described in the Major Program in Women's and Gender Studies.

## **Co-op Work Term Requirements**

Students must satisfactorily complete two Co-op work terms, each of four-months duration. To be eligible for their first work term, students must be enrolled in the Major (Co-op) Program in Women's and Gender Studies and have completed at least 9.0 credits, including <u>WSTA01H3</u>, <u>WSTA03H3</u> and <u>WSTB05H3</u>.

In addition to their academic program requirements, Co-op students complete up to four Co-op specific courses. These courses are designed to prepare students for their job search and work term experience, and to maximize the benefits of their Co-op work terms. They cover a variety of topics intended to assist students in developing the skills and tools required to secure work terms that are appropriate to their program of study, and to perform professionally in the workplace. These courses must be completed in sequence, and are taken in addition to a full course load. They are recorded on transcripts as credit/no credit (CR/NCR) and are considered to be additive credit to the 20.0 required degree credits. No additional course fee is assessed as registration is included in the Co-op Program fee.

## Co-op Preparation Course Requirements:

1. COPD01H3 - Foundations for Success in Arts & Science Co-op

- Students entering Co-op from outside of UTSC (high school or other postsecondary) will complete this course in fall of their first year at UTSC

- Current UTSC students entering Co-op in April/May will complete this course in the summer term

- Current UTSC students entering Co-op in July/August will complete this course in the fall term

2. <u>COPD03H3</u> – Preparing to Compete for your Co-op Work Term

- Prerequisite: COPD01H3

- This course will be completed eight months in advance of the first scheduled work term

3. <u>COPD11H3</u> – Managing your Work Term Search & Transition to Work

- Prerequisite: <u>COPD03H3</u>

- This course will be completed four months in advance of the first work scheduled work term

4. <u>COPD12H3</u> – Integrating Your Work Term Experience Part I

- Prerequisite: COPD11H3 and one Co-op work term

- This course will be completed four months in advance of the second scheduled work term

Students must be available for work terms in each of the Fall, Winter and Summer sessions and must complete at least one of their required work terms in either a Fall or Winter session. This in turn requires that students take courses during at least one Summer session.

For information on fees, status in Co-op programs, and certification of completion of Co-op programs, see Section 6B.5 of the UTSC *Calendar*.

## 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 4.0 credits as follows:

**1. 1.0 credit from the following** <u>WSTA01H3</u> Introduction to Women's and Gender Studies *and* <u>WSTA03H3</u> Introduction to Feminist Theory and Thought

## 2. WSTB05H3 Power and Knowledge in Approaches to Research

3. WSTB11H3 Intersections of Inequality

4. 2.0 additional credits in Women's and Gender Studies at the B, C, or D-level from the courses identified in the Concentrations Table shown in the introduction to the Women's and Gender Studies section of the Calendar; at least 1.0 credit 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.

**Exclusion:** (NEW160Y), WGS160Y, WGS101H **Breadth Requirements:** Social & Behavioural Sciences

## WSTA03H3 - Introduction to Feminist Theory and Thought

An introduction to feminist theories and thoughts with a focus on diverse, interdisciplinary and cross-cultural perspectives. An overview of the major themes, concepts and terminologies in feminist thinking and an exploration of their meanings.

Exclusion: (NEW160Y), WGS160Y, WGS200Y, WGS260H Breadth Requirements: History, Philosophy & Cultural Studies

# WSTB05H3 - Power and Knowledge in Approaches to Research

Using an intersectional lens, various methods and methodologies of research will be explored. Concepts of paradigm, power, knowledge-creation, objectivity 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 Requirements: Social & Behavioural Sciences

## 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 Requirements:** 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:** 1.0 credit at the A-level in AFS, GAS, HIS, WST, or other Humanities and Social Sciences courses **Exclusion:** (WSTA02H3)

**Recommended Preparation:** WSTA01H3 or WSTA03H3 **Breadth Requirements:** History, Philosophy & Cultural Studies

# 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 and [WSTA03H3 or (WSTA02H3)] Breadth Requirements: 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 and [WSTA03H3 or (WSTA02H3) or WSTB05H3 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 Requirements: 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 Requirements: History, Philosophy & Cultural Studies

# WSTB25H3 - LGBTQ History, Theory and Activism

This course introduces students to current discussions, debates and theories in LGBT and queer studies and activism. It will critically examine terms such as gay, lesbian, bisexual, transgender, queer, heterosexual, and ally, and explore how class, race, culture, ability, and history of colonization impact the experience of LGBTQidentified people.

**Prerequisite:** 4.0 credits, including 1.0 credit in Humanities or Social Sciences **Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students enrolled in a Women's and Gender Studies program.

# WSTC02H3 - Feminist Qualitative Research in Action

Students will design and conduct a qualitative research project in the community on an issue related to women and/or gender. The course 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. Students should expect to spend approximately 10 hours conducting their research in the community over the course of the semester.

Prerequisite: WSTA01H3 and WSTA03H3 and WSTB05H3 and WSTB11H3 and 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 Requirements: 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.

Same as AFSC53H3

Prerequisite: [AFSA03H3/ IDSA02H3 or IDSB01H3 or IDSB02H3] or [[WSTA01H3 or WSTA03H3] and [an additional 0.5 credit in WST courses]] Exclusion: AFSC53H3 Breadth Requirements: 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 place on the cultural contexts of gender, ethnicity and class.

Prerequisite: ENGB50H3 or [WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and any ENG or FRE literature course]]. Recommended Preparation: WSTB13H3 Enrolment Limits: 50 Breadth Requirements: 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 Requirements:** 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 and [WSTA03H3 or (WSTA02H3)] **Breadth Requirements:** 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 and [WSTA03H3 or (WSTA02H3)]] or 1.0 full credit in Sociology Recommended Preparation: WSTB13H3 Enrolment Limits: 40 Breadth Requirements: History, Philosophy & Cultural Studies

# WSTC20H3 - Women, Gender and Environmental (In)Justice

An examination of the impact the environment has on our gendered lives. Current, historical and transnational perspectives will be addressed. Topics will include: the impact of environmental degradation on gendered bodies; planning for safer places; global sustainable development; ecofeminism; the gender division of spaces.

**Prerequisite:** 1.5 credits in WST courses, 1.0 credit of which must be at the B- and/or C-level **Breadth Requirements:** Social & Behavioural Sciences

# WSTC22H3 - Gender and Film

This course examines the representations of gender in narrative, documentary and experimental films by a selection of global directors from a social, critical and historical perspective. We will analyse and engage with the filmic representations of race, class and sexual orientation, and explore how traditional and non-traditional cinema can challenge or perpetuate normative notions of gender.

Prerequisite: Any 5.0 credits, including: [WSTA01H3 and [WSTA02H3 or WSTA03H3]] or [0.5 credit in ENG, FRE or GAS cinema/film focused courses] Recommended Preparation: WSTB13H3 Enrolment Limits: 50 Breadth Requirements: 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 Requirements: 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:** 8.0 credits, including 0.5 credit at the A or B-level in WST courses and 0.5 credit at the A or B-level in FST courses

**Breadth Requirements:** History, Philosophy & Cultural Studies
#### WSTC25H3 - Transnational Sexuality

This course examines how sexuality and gender are shaped and redefined by cultural, economic, and political globalization. We will examine concepts of identity, sexual practices and queerness, as well as sexuality/gender inequality in relation to formulations of the local-global, nations, the transnational, family, homeland, diaspora, community, borders, margins, and urban-rural.

**Prerequisite:** 1.0 credit at the A-level and 1.0 credit at the B-level in WST courses, or other Humanities and Social Sciences courses

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students enrolled in the Major and Minor programs in Women's and Gender Studies. Additional students will be admitted as space permits.

#### 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 Requirements:** 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 and [WSTA03H3 or (WSTA02H3)]

### 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)]

## 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 and [WSTA03H3 or (WSTA02H3)].

#### WSTC40H3 - Gender and Disability

This course introduces debates and approaches to the intersection of disability with social determinants of gender, sexuality, class, race and ethnicity. Students will examine international human rights for persons with disabilities, images and representations of gender and the body, research questions for political activism, and social injustice.

Prerequisite: 1.5 credits, including [WSTA01H3 or WSTA03H3] and [0.5 credit at the B- or C-level in WST courses] Exclusion: WGS366H Enrolment Limits: 50 Breadth Requirements: History, Philosophy & Cultural Studies

### WSTD01H3 - Senior Project in Women's and Gender Studies

An opportunity to undertake an in-depth research topic under the supervision of a Women's and Gender Studies faculty member.

A substantial essay/project on the approved topic will have two evaluators - the course coordinator and the supervising faculty member.

This course is only open to Women's and Gender Studies Major program students with a strong record who are completing the last 5 credits of their degree. A proposal must be presented for approval to the course coordinator in the term prior to the start of the course.

**Prerequisite:** At least 12.0 full credits including WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and WSTB05H3 and 1.5 full credits taken from the courses listed in #3 and #7 in the Major Program.

#### WSTD03H3 - Senior Seminar in Sex, Gender and the Body

An advanced and in-depth examination of selected topics related to health, sexualities, the gendered body, and the representations and constructions of women and gender. The course will be in a seminar format with student participation expected. It is writing intensive and involves a major research project.

**Prerequisite:** WSTA01H3 and [WSTA03H3 or (WSTA02H3)] and WSTB11H3; and two C-level courses from requirement #6 of the Major in Women's and Gender Studies

Enrolment Limits: 20

#### 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

## 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 British India. Same as HISD07H3

**Prerequisite:** Any 8.0 credits, including: [0.5 credit at the A- or B-level in HIS or WST courses] and [0.5 credit at the C-level in HIS or WST courses] **Exclusion:** HISD07H3

Recommended Preparation: HISB02H3 or HISB03H3 or WSTB06H3

Enrolment Limits: 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

## WSTD10H3 - Story Telling 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.

Prerequisite: 3.5 credits in WST courses, including [WSTB05H3 and 0.5 credit at the C-level] Exclusion: HISC28H3, HISD25H3, WSTC02H3 (Fall 2013), HISD44H3 (Fall 2013), CITC10H3 (Fall 2013) Breadth Requirements: History, Philosophy & Cultural Studies

# WSTD11H3 - Special Topics in Womens 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 among the courses that can be used to satisfy requirement 6 of the Major in Women's and Gender Studies

**Breadth Requirements:** History, Philosophy & Cultural Studies

#### 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: 1.0 credit at the B-level and 1.0 credit at the C-level in HIS, WST, or other Humanities and Social Sciences courses Exclusion: HISD16H3 Enrolment Limits: 15 Breadth Requirements: History, Philosophy & Cultural Studies

#### WSTD30H3 - Alien/Asian: Techno-Orientalism and Global Asian Futurity

This course examines how popular culture projects its fantasies and fears about the future onto Asia through sexualized and racialized technology. Through the lens of techno-Orientalism this course explores questions of colonialism, imperialism and globalization in relation to cyborgs, digital industry, high-tech labor, and internet/media economics. Topics include the hypersexuality of Asian women, racialized and sexualized trauma and disability. This course requires student engagement and participation. Students are required to watch films in class and creative assignments such as filmmaking and digital projects are encouraged. Same as GASD30H3

**Prerequisite:** 1.0 credit at the B-level and 1.0 credit at the C-level in WST courses or other Humanities and Social Sciences courses **Exclusion:** GASD30H3

Enrolment Limits: 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Priority will be given to students enrolled in the Major and Minor programs Women's and Gender Studies, and the Specialist/Major and Minor programs in Global Asia Studies. Additional students will be admitted as space permits.

## 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 8.0 credits, including: [0.5 credit at the A- or B-level in AFS, CLA, FST, GAS, HIS or WST courses] and [0.5 credit at the C-level in AFS, CLA, FST, GAS, HIS or WST courses]

Exclusion: HISD46H3

Recommended Preparation: HISB02H3 or HISB03H3 or HISB14H3 or WSTB06H3 or HISB50H3 or GASB57H3/ HISB57H3 or HISC09H3 or HISC29H3

Enrolment Limits: 15

**Breadth Requirements:** History, Philosophy & Cultural Studies

**Note:** Topics vary from year to year. Check the website <u>www.utsc.utoronto.ca/~hcs/programs/history.html</u> for current offerings.

### **Updates and changes to the Calendar**

Date of Change	Description of Change	Rationale for Change
June 4, 2018	<ul> <li>The following amendments have been made to the UTSC Second Degree Policy:</li> <li>1. Students with any completed undergraduate degree from the University of Toronto may apply for, and obtain, an Honours Bachelor of Arts or an Honours Bachelor of Science from UTSC as a second degree.</li> <li>2. No student may apply for, or obtain, a Bachelor of Business Administration (BBA) as a second degree.</li> <li>3. Students wanting to pursue a second degree in a limited enrolment program may need to complete prerequisite courses as a non-degree student prior to entering the second degree.</li> <li>4. Students will be evaluated for credits towards their second degree according to the current practice, and credits taken as a UTSC non-degree student since graduation will be retained as credits towards the second degree.</li> <li>5. In the second degree, students will be restricted from repeating program(s) in the same discipline(s) as completed in the first degree; for example, a student whose first degree includes a program in English will not be permitted to use a program in English towards a second degree.</li> </ul>	<ul> <li>The current policy perhaps made sense at a time when degree requirements for an Honours BA or BSc did not include the ability to choose from a wide range of specific programs of study, and could, instead, involve a majority of courses from broad categories. However:</li> <li>The policy does not recognize that highly distinct degree programs can be obtained under the rubric of an Arts or a Science degree; for example, a student who graduates with an Honours Bachelor of Science degree with a program in the biological sciences being unable to pursue a second BSc with a program in computer science does not make sense.</li> <li>The policy disadvantages our own graduates. Any student from another university, with an undergraduate degree, may apply to be admitted to pursue either an Honours BA or BSc, regardless of the first degree type; however, they may not pursue the same program(s) of study.</li> <li>Amendments approved at:</li> <li>UTSC AAC: May 3, 2018</li> <li>Committee on Academic Policy and Programs: May 10, 2018</li> <li>UTSC Campus Council: May 28, 2018</li> <li>UT Academic Board: May 31, 2018</li> </ul>
May 31, 2018 May 30, 2018	The following courses have been added: *FREC03H3 French in Action I: Practical Workshop in Theatre – to be offered in Winter 2019 *PHLC14H3 Topics in Non-Western Philosophy – to be offered in Winter 2019 *PHLD88Y3 Advanced Seminar in Philosophy: Socrates Project – to be offered in Fall 2018 *PSYD23H3 Dyadic Processes in Psychological Development – to be offered in Fall 2018 *PSYD55H3 Functional Magnetic Resonance Imaging Laboratory – to be offered in Fall 2018 *PSYD59H3 Psychology of Gambling - to be offered in Fall 2018 Revisions to the mode for assessing students for proficiency in the French section of the Calendar	New courses approved out-of-cycle on May 30, 2018. Provides additional clarify for students.
April 18, 2018	Specialist Program in Chemistry *The total credits to compete component 3 of the program requirements has changed from 2.5 to 3.0. There have been no changes to the courses required in the component.	Corrects an addition error in the calculation of the total credits contained in component 3.